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Resistance of FLEXIMARK® labels

[illegible]

■ = high ▣ = medium □ = none

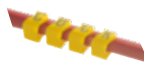
To meet the high requirements of our products and to ensure our quality standard all FLEXIMARK® products are subjected to a series of strict tests. These are made

by the independent SP Technical Research Institute of Sweden using the SP 2171 Test Method which is used especially for collars and plastic information carrier which mark

electric wires, cables, components and clamps. For receiving an impression, some of the tests are listed below:

Test	Method and criteria
Ageing resistance	Accelerated ageing in heat oven (2000 days at 90°C (194°F)) corresponding to use at 20°C (+68°F) for 30 years. Check for cracks, breaks or similar damage. (Max 50% reduction in elongation before breakage.) Also check for mountability and dismountability.
UV-resistance	Accelerating test corresponding to ISO 4892-2 exposure 1 year outdoors in southern Sweden. Check for brittleness and change in colour and readability.
Abrasion resistance of marking text	According to SP Method 2172 (rubbing machine). Load 75 g per mm mandrel diameter. 200+200 cycles.
Chemical resistance	Mounted sleeves kept for 24 hours at +23°C & -2°C (+73.4°F & 28.4°F) immersed in the chemical. Drying for 2 hours then check for functionality, colour fastness and print legibility. Chemicals used: Synthetic diesel oil, Sulphuric acid 25%, basic cleaning agent (Berol226, 10%), Distilled water, Sea water (5% NaCl), Transformer oil (Nytro 10x), Ethanol, other chemicals on request.
Chemical resistance with Abrasion test	Combination of abrasion-test and chemical resistance-test.

Note: actual version and further information are available on our homepage

		BASIC SYSTEM		CUSTOMIZED SYSTEM		
How?		Ready made to deliver for each environment		Your demand - we deliver		
What?						
CABLE	Outdoor & Indoor	 MINI & MAXI & HOLDERS PTE	 STAINLESS STEEL	 STAINLESS STEEL	 CABLE MARKING	
		 COLLARS TS & HF & MARKING TAGS	 SHRINK TUBES	 COLLARS FOR CABLE TIES & MARKING TAGS	 TEXT COLLARS PTET	
	Indoor	 LABEL CARDS AND BLOCKS	 DYMO® printer	 SHRINK TUBE MARKING	 CABLE TIE MARKING FKBB	
WIRE	before mounting the wire	 FLEXIPART	 PA MARKING RINGS	 SHRINK TUBE MARKING	 FLEXIPART	 MARKING RINGS
	after mounting the wire	 SNAP-ON COLLARS & MARKING TAGS	 PC MARKING RINGS		 SNAP-ON COLLARS & MARKING TAGS	
COMPONENT	Device marking	 MLM MOUNTING PROFILES & MINI	 PGS CHARACTER HOLDERS		 ENGRAVED MARKING	
	Terminal	 TERMINAL BLOCK	 DYMO® printer		 TERMINAL BLOCK	
	Sensor					

DATA MARKING
Laser office printer

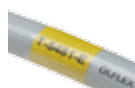
**Flexisoft with
ePLAN and WS-CAD interface**

Thermal transfer printers

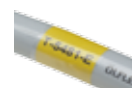
COLLARS FOR CABLE TIES LFL 4,2

**FLEXILABEL LFL & HOLDERS
PTET/LAB**

**FLEXILABEL TFL & HOLDERS
PTEF/LAB**

**COLLARS FOR CABLE TIES &
MARKING TAGS TMB**

LCK/LCFK LABELS

CABLE LABEL LFL & TIES

CABLELABEL LTFL & TIES

TCK LABELS

TAG TIES & LA/LB LABELS

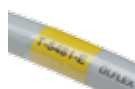
FLEXIMARK® flat shrink tube

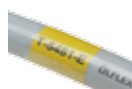
TAG TIES & TA LABELS

FLEXIPRINT LF

**COLLARS TS/HF &
FLEXILABEL LFL 4,2**

FLEXIPRINT TF

**SHRINKING TUBES
SHRINK MARK SM**

LCFK/LCK LABELS

BRADY® FLAG LABELS B-425

TCK LABELS

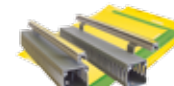
FLAG LABELS

**SNAP-ON COLLARS &
MARKING TAGS**

LA LABELS

LFL LEXEL/THORSMAN

TA LABELS

BRADY® EPREP

**MLM MOUNTING
PROFILES & TFL 9,5**

LA LABELS

TERMINAL BLOCK

CLIP-ON COLLARS & LFL

BRADY® DURASLEEVE

**CLIP-ON COLLARS &
MARKING TAGS**

FLEXIPART single wire marking / FLEXIPART Set single wire marking



FLEXIPART single wire marking

■ Benefits

FLEXIPART single wire marking

- Easy to assemble/install
- Good overall view, as the remaining markers stay on the marking roll

FLEXIPART Set single wire marking

- Easy to assemble/install

■ Application range

- Flexipart is a unique system for clean and permanent marking of single cores and thin cables.
- This system is suitable for marking electrical equipment and fibre cables during installation

■ Approvals (Norm references)



■ Note

FLEXIPART single wire marking

- For cable cross-sections over 16.00 mm², cable ties can be used for installing single markers
- Special cards FCC in all sizes with customised printing

■ Design

FLEXIPART single wire marking

- Flexipart consists of single marking rolls that contain 20-60 perforated markers, depending on the size (F0/F1/F1b/F2/F3)
- Following colours available on request: yellow, green, blue, red

■ Scope of delivery

FLEXIPART single wire marking

- Customized order size on rolls

■ Technical data



Note

FLEXIPART single wire marking

On rolls



Colour delivered

FLEXIPART single wire marking

White



Material

FLEXIPART single wire marking

Halogen-free polyester

Thickness: 0.25 mm



Range of temperature

FLEXIPART single wire marking

-40°C up to +100°C

Part number	Article designation	Marking	for mm ²	Labels / PU	PU
Blank rolls in different sizes					
83255011	FLEXIPART Blank B-F0	Blank, for labelling yourself	0.25 - 0.75	600	1
83255012	FLEXIPART Blank B-F1	Blank, for labelling yourself	0.75 - 1.5	600	1
83255013	FLEXIPART Blank B-F1b	Blank, for labelling yourself	1.5 - 2.5	600	1
83255014	FLEXIPART Blank B-F2	Blank, for labelling yourself	2.5 - 6	600	1
83255015	FLEXIPART Blank B-F3	Blank, for labelling yourself	6 - 16	300	1
Sequence labels F1 with consecutive numbers					
83280010	FLEXIPART Sequence F1 1-50	1-50+10 Blanko	0.75 - 1.5	60	1
83280011	FLEXIPART Sequence F1 51-100	51-100+10 Blanko	0.75 - 1.5	60	1
83280012	FLEXIPART Sequence F1 101-150	101-150+10 Blanko	0.75 - 1.5	60	1
83280013	FLEXIPART Sequence F1 151-200	151-200+10 Blanko	0.75 - 1.5	60	1
Sequence labels F1b with consecutive numbers					
83280014	FLEXIPART Sequence F1B 1-50	1-50+10 Blanko	1.5 - 2.5	60	1
83280015	FLEXIPART Sequence F1B 51-100	51-100+10 Blanko	1.5 - 2.5	60	1
83280016	FLEXIPART Sequence F1B 101-150	101-150+10 Blanko	1.5 - 2.5	60	1
83280017	FLEXIPART Sequence F1B 151-200	151-200+10 Blanko	1.5 - 2.5	60	1
Symbol labels with different common symbols					
83280018	FLEXIPART Symbol F1L	L1-3,N,PE,U-W,Mp	0.75 - 1.5	30	1
83280019	FLEXIPART Symbol F1BL	L1-3,N,PE,U-W,Mp	1.5 - 2.5	30	1
83280020	Standard card set K-F1	0 - 99	0.75 - 1.5		6,000
83280021	Standard card set K-F1B	0 - 99	1.5 - 2.5		6,000

Also further different-coloured versions and sizes available

FLEXIPART FCC special cards

■ Benefits

- Marking before assembly
- Customized printed cards in all sizes (F0/F1/F1L/F1b/F1bL/F2/F3)

■ Application range

- Up to max. 7 characters
- FLEXIMARK® Cable marking system for individual application areas

■ Product features

- The shape ensures secure affixing to the cable, while the anti-rotation feature ensures secure combination marking.

■ Approvals (Norm references)



■ Note

- Customized data are transmitted via ASCII File or Excel File to the responsible Lapp employee by e-mail for the order.



Part number	Article designation	Marking	Cable Ø	Cards per PU	Marker / PU	PU
83280022	Special card F0	Customized	0.2 - 0.75	1	60	1
83280023	Special card F1	Customized	0.75 - 1.5	1	60	1
83280024	Special card F1L	Customized	0.75 - 1.5	1	30	1
83280025	Special card F1b	Customized	1.5 - 2.5	1	60	1
83280026	Special card F1bL	Customized	1.5 - 2.5	1	30	1
83280027	Special card F2	Customized	2.5 - 6	1	60	1
83280028	Special card F3	Customized	6 - 16	1	20	1

FLEXI-sleeve FS single wire marking

■ Benefits

- Simple marking

■ Application range

- Control Cabinet Single Cores
- FLEXIMARK® cable and component marking

■ Product features

- Easy handling:

■ Technical data

- Material**
Flexible PVC; UL94 V0 (fire class)
- Range of temperature**
-15°C up to +90 °C



■ Approvals (Norm references)



■ Note

- Customized data are transmitted via ASCII File or Excel File to the responsible Lapp employee by e-mail for the order.

Part number	Article designation	Colour	for mm²	Number of characters	PU
83263000	FLEXI-SLEEVE FCC-FS 30 1-7	yellow	0.5 - 1.5	1-7	1
83263001	FLEXI-SLEEVE FCC-FS 30 8-12	yellow	0.5 - 1.5	8-12	1
83263002	FLEXI-SLEEVE FCC-FS 30 13-17	yellow	0.5 - 1.5	13-17	1
83263003	FLEXI-SLEEVE FCC-FS 40 1-7	yellow	0.75 - 6	1-7	1
83263004	FLEXI-SLEEVE FCC-FS 40 8-12	yellow	0.75 - 6	8-12	1
83263005	FLEXI-SLEEVE FCC-FS 40 13-17	yellow	0.75 - 6	13-17	1
83263006	FLEXI-SLEEVE FCC-FS 90 1-7	yellow	4 - 16	1-7	1
83263007	FLEXI-SLEEVE FCC-FS 90 8-12	yellow	4 - 16	8-12	1
83263008	FLEXI-SLEEVE FCC-FS 90 13-17	yellow	4 - 16	13-17	1

Single core marking

FLEXIMARK® Single core marking

FLEXIMARK® Collar Snap-on



FLEXIMARK® Collar Snap-on

■ Benefits

- Efficient way of marking on ready-installed cables and wires
- Scratch protection
- Unique system for rational and durable marking of wires and thin cables (e.g. fibre-optic cables) in control cabinets.

■ Application range

- FLEXIMARK® snap-on collar is composed of one rigid and elastic part that snaps onto the cable, and a soft, transparent part designed to hold the marker. It can therefore still be marked after the electrical connection has been made.
- UNITRONIC® Fieldbus sensor-/actuator wiring requirements

■ Approvals (Norm references)



■ Note

- FLEXIMARK® labels LMB can be used in different marking collars. These labels are on DIN A 5 sheets and can be printed easily with the FLEXIMARK® Software. These labels are halogen-free.

■ Scope of delivery

- Marking collars without labels (please see FLEXIMARK® labels LMB - 10 pcs.DIN A 5 sheets a 46 labels)

■ Technical data



Approvals

Flame retardant in accordance with UL94 VO



Colour delivered

Transparent



Material

HD PE halogen-free



Range of temperature

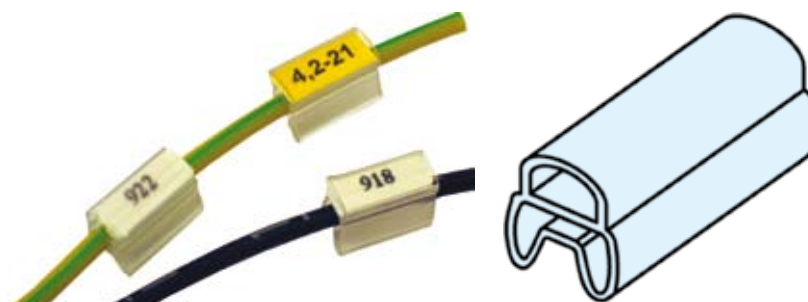
-40°C up to +80°C

Part number	Article designation	Colour	Length in mm	Cable Ø	Pieces / PU
83252650	FLEXIMARK® collar Snap-on 2 - 3.5 / 10 mm	transparent	10.0	3.5	1,000
83252651	FLEXIMARK® collar Snap-on 2 - 3.5 / 15 mm	transparent	15.0	3.5	1,000
83252695	FLEXIMARK® collar Snap-on 2 - 3.5 / 23 mm	transparent	23.0	3.5	500
83252653	FLEXIMARK® collar Snap-on 2.8 - 5 / 10 mm	transparent	10.0	5	1,000
83252654	FLEXIMARK® collar Snap-on 2.8 - 5 / 15 mm	transparent	15.0	5	1,000
83252656	FLEXIMARK® collar Snap-on 5 - 8 / 10 mm	transparent	10.0	8	500
83252657	FLEXIMARK® collar Snap-on 5 - 8 / 15 mm	transparent	15.0	8	500
83252660	FLEXIMARK® collar Snap-on 8 - 10 / 15 mm	transparent	15.0	10	500
Suitable labels					
83254680	FLEXIMARK® labels LMB 35x4,6mm	black/ yellow	30.0		460

■ Accessories

- FLEXIMARK® Software 10.0 see page 877

FLEXIMARK® Collar halogenfree



FLEXIMARK® Collar halogenfree

■ Benefits

- Scratch protection
- Durable application
- FLEXIMARK® collars halogen-free are provided with a marking sleeve giving an efficient scratch protection for the marking, thus resistant towards most of the strains in the environment. This collar does not release halogenous substances if burned, and is therefore used in high-risk installations.

■ Product features

- FLEXIMARK® labels LMB can be used in different marking collars. These labels are on DIN A 5 sheets and can be printed easily with the FLEXIMARK® Software. These labels are halogen-free.

■ Approvals (Norm references)



■ Technical data

	Approvals
	Flame retardant in accordance with UL94 V0
	Colour delivered
	Transparent
	Material
	PUR halogen-free
	Range of temperature
	-50°C up to +80°C

■ Application range

- Control cabinet wiring
- UNITRONIC® Fieldbus sensor-/actuator wiring requirements

■ Scope of delivery

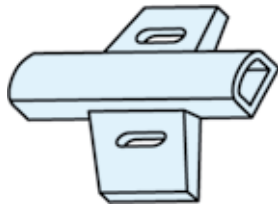
- Marking collars without labels (please see FLEXIMARK® labels LMB - 10 pcs.DIN A 5 sheets a 46 labels)

Part number	Article designation	Colour	Length in mm	Cable Ø	Pieces / PU
83252670	FLEXIMARK® collar halogenfree 1.4 - 5 / 10 mm	transparent	10.0	5	1,000
83252671	FLEXIMARK® collar halogenfree 1.4 - 5 / 15 mm	transparent	15.0	5	1,000
83252693	FLEXIMARK® collar halogenfree 1.4 - 5 / 23 mm	transparent	23.0	5	500
83252672	FLEXIMARK® collar halogenfree 1.4 - 5 / 30 mm	transparent	30.0	5	500
83252673	FLEXIMARK® collar halogenfree 5.0 - 11,0 / 10 mm	transparent	10.0	11	500
83252674	FLEXIMARK® collar halogenfree 5.0 - 11,0 / 15 mm	transparent	15.0	11	500
83252694	FLEXIMARK® collar halogenfree 5.0 - 11,0 / 23 mm	transparent	23.0	11	200
83252675	FLEXIMARK® collar halogenfree 5.0 - 11,0 / 30 mm	transparent	30.0	11	200
Suitable labels					
83254680	FLEXIMARK® labels LMB 35x4,6mm	black/ yellow	30.0		460

■ Accessories

- FLEXIMARK® Software 10.0 see page 877

FLEXIMARK® Collar with cable tie



FLEXIMARK® Collar with cable tie



Info

- Sample labels on request

■ Benefits

- These FLEXIMARK® collars are also provided with an efficient scratch protection, which is why they can be mounted even in an outdoor environment.
- Reliable solution due to the fact of bundling with cable ties

■ Application range

- Together with the FLEXIMARK® labels LMB this becomes a reliable solution for marking. This collar can easily be mounted on a cable with cable ties.

- UNITRONIC® Fieldbus sensor-/actuator wiring requirements

■ Approvals (Norm references)



■ Scope of delivery

- Marking collars without labels (please see FLEXIMARK® labels LMB - 10 pcs.DIN A 5 sheets a 46 labels)

■ Technical data



Approvals

Flame retardant in accordance with UL94 VO



Colour delivered

Transparent



Material

PUR halogen-free



Range of temperature

-20°C up to + 65°C

Part number	Article designation	Colour	Length in mm	Pieces / PU
83252676	FLEXIMARK® collar for cable ties	transparent	30.0	200
Suitable labels				
83254680	FLEXIMARK® labels LMB 35x4,6mm	black / yellow	30.0	460

■ Accessories

- FLEXIMARK® Software 10.0 see page 877
- TY - FAST® standard cable ties see page 962

Marking rings PC



■ Application range

Marking rings PC 10

- These open marking rings are suitable for labelling cables before and after installation.
- They can be clipped onto the cable easily and quickly.

- The shape ensures secure affixing to the cable, while the anti-rotation feature ensures secure combination marking.
- Marking after assembly

■ Approvals (Norm references)



■ Technical data



Approvals
UL 94 V0



Note
Resistance: self-extinguishing



Colour delivered
Yellow



Material
Cadmium free hard PVC



Range of temperature
-30°C up to +70°C

Part number	Article designation	Width x height mm	Sleeve length mm	Area of application Ø mm	Pieces / PU
PC 10					
61820900	PC 10 / O	3.7 x 3.6	3	2.4 - 3.0	200
61820910	PC 10 / 1	3.7 x 3.6	3	2.4 - 3.0	200
61820920	PC 10 / 2	3.7 x 3.6	3	2.4 - 3.0	200
61820930	PC 10 / 3	3.7 x 3.6	3	2.4 - 3.0	200
61820940	PC 10 / 4	3.7 x 3.6	3	2.4 - 3.0	200
61820950	PC 10 / 5	3.7 x 3.6	3	2.4 - 3.0	200
61820960	PC 10 / 6	3.7 x 3.6	3	2.4 - 3.0	200
61820970	PC 10 / 7	3.7 x 3.6	3	2.4 - 3.0	200
61820980	PC 10 / 8	3.7 x 3.6	3	2.4 - 3.0	200
61820990	PC 10 / 9	3.7 x 3.6	3	2.4 - 3.0	200
61821000	PC 10 / blanc	3.7 x 3.6	3	2.4 - 3.0	200
61821010	PC 10 / A	3.7 x 3.6	3	2.4 - 3.0	200
61821020	PC 10 / B	3.7 x 3.6	3	2.4 - 3.0	200
61821030	PC 10 / C	3.7 x 3.6	3	2.4 - 3.0	200
61821040	PC 10 / D	3.7 x 3.6	3	2.4 - 3.0	200
61821050	PC 10 / E	3.7 x 3.6	3	2.4 - 3.0	200
61821060	PC 10 / F	3.7 x 3.6	3	2.4 - 3.0	200
61821070	PC 10 / G	3.7 x 3.6	3	2.4 - 3.0	200
61821080	PC 10 / H	3.7 x 3.6	3	2.4 - 3.0	200
61821090	PC 10 / I	3.7 x 3.6	3	2.4 - 3.0	200
61821100	PC 10 / J	3.7 x 3.6	3	2.4 - 3.0	200
61821110	PC 10 / K	3.7 x 3.6	3	2.4 - 3.0	200
61821120	PC 10 / L	3.7 x 3.6	3	2.4 - 3.0	200
61821130	PC 10 / M	3.7 x 3.6	3	2.4 - 3.0	200
61821140	PC 10 / N	3.7 x 3.6	3	2.4 - 3.0	200
61821150	PC 10 / O	3.7 x 3.6	3	2.4 - 3.0	200
61821160	PC 10 / P	3.7 x 3.6	3	2.4 - 3.0	200
61821170	PC 10 / Q	3.7 x 3.6	3	2.4 - 3.0	200
61821180	PC 10 / R	3.7 x 3.6	3	2.4 - 3.0	200
61821190	PC 10 / S	3.7 x 3.6	3	2.4 - 3.0	200
61821200	PC 10 / T	3.7 x 3.6	3	2.4 - 3.0	200
61821210	PC 10 / U	3.7 x 3.6	3	2.4 - 3.0	200
61821220	PC 10 / V	3.7 x 3.6	3	2.4 - 3.0	200
61821230	PC 10 / W	3.7 x 3.6	3	2.4 - 3.0	200
61821240	PC 10 / X	3.7 x 3.6	3	2.4 - 3.0	200
61821250	PC 10 / Y	3.7 x 3.6	3	2.4 - 3.0	200
61821260	PC 10 / Z	3.7 x 3.6	3	2.4 - 3.0	200
61821270	PC 10 / /	3.7 x 3.6	3	2.4 - 3.0	200
61821280	PC 10 / .	3.7 x 3.6	3	2.4 - 3.0	200
61821290	PC 10 / ,	3.7 x 3.6	3	2.4 - 3.0	200
61821300	PC 10 / :	3.7 x 3.6	3	2.4 - 3.0	200
61821310	PC 10 / =	3.7 x 3.6	3	2.4 - 3.0	200
61821320	PC 10 / Earth	3.7 x 3.6	3	2.4 - 3.0	200
61821360	PC 10 / +	3.7 x 3.6	3	2.4 - 3.0	200
61821370	PC 10 / -	3.7 x 3.6	3	2.4 - 3.0	200
61821380	PC 10 / ~	3.7 x 3.6	3	2.4 - 3.0	200
PC 20					
61821400	PC 20 / 0	4.5 x 4.2	3	3.0 - 4.0	200
61821410	PC 20 / 1	4.5 x 4.2	3	3.0 - 4.0	200
61821420	PC 20 / 2	4.5 x 4.2	3	3.0 - 4.0	200
61821430	PC 20 / 3	4.5 x 4.2	3	3.0 - 4.0	200
61821440	PC 20 / 4	4.5 x 4.2	3	3.0 - 4.0	200
61821450	PC 20 / 5	4.5 x 4.2	3	3.0 - 4.0	200
61821460	PC 20 / 6	4.5 x 4.2	3	3.0 - 4.0	200
61821470	PC 20 / 7	4.5 x 4.2	3	3.0 - 4.0	200
61821480	PC 20 / 8	4.5 x 4.2	3	3.0 - 4.0	200
61821490	PC 20 / 9	4.5 x 4.2	3	3.0 - 4.0	200
61821500	PC 20 / blanc	4.5 x 4.2	3	3.0 - 4.0	200
61821510	PC 20 / A	4.5 x 4.2	3	3.0 - 4.0	200
61821520	PC 20 / B	4.5 x 4.2	3	3.0 - 4.0	200
61821530	PC 20 / C	4.5 x 4.2	3	3.0 - 4.0	200
61821540	PC 20 / D	4.5 x 4.2	3	3.0 - 4.0	200
61821550	PC 20 / E	4.5 x 4.2	3	3.0 - 4.0	200
61821560	PC 20 / F	4.5 x 4.2	3	3.0 - 4.0	200
61821570	PC 20 / G	4.5 x 4.2	3	3.0 - 4.0	200
61821580	PC 20 / H	4.5 x 4.2	3	3.0 - 4.0	200
61821590	PC 20 / I	4.5 x 4.2	3	3.0 - 4.0	200
61821600	PC 20 / J	4.5 x 4.2	3	3.0 - 4.0	200
61821610	PC 20 / K	4.5 x 4.2	3	3.0 - 4.0	200
61821620	PC 20 / L	4.5 x 4.2	3	3.0 - 4.0	200
61821630	PC 20 / M	4.5 x 4.2	3	3.0 - 4.0	200
61821640	PC 20 / N	4.5 x 4.2	3	3.0 - 4.0	200
61821650	PC 20 / O	4.5 x 4.2	3	3.0 - 4.0	200
61821660	PC 20 / P	4.5 x 4.2	3	3.0 - 4.0	200
61821670	PC 20 / Q	4.5 x 4.2	3	3.0 - 4.0	200
61821680	PC 20 / R	4.5 x 4.2	3	3.0 - 4.0	200
61821690	PC 20 / S	4.5 x 4.2	3	3.0 - 4.0	200
61821700	PC 20 / T	4.5 x 4.2	3	3.0 - 4.0	200
61821710	PC 20 / U	4.5 x 4.2	3	3.0 - 4.0	200
61821720	PC 20 / V	4.5 x 4.2	3	3.0 - 4.0	200
61821730	PC 20 / W	4.5 x 4.2	3	3.0 - 4.0	200

Single core marking

Marking rings and sleeves

Part number	Article designation	Width x height mm	Sleeve length mm	Area of application Ø mm	Pieces / PU
61821740	PC 20 / X	4.5 x 4.2	3	3.0 - 4.0	200
61821750	PC 20 / Y	4.5 x 4.2	3	3.0 - 4.0	200
61821760	PC 20 / Z	4.5 x 4.2	3	3.0 - 4.0	200
61821770	PC 20 / /	4.5 x 4.2	3	3.0 - 4.0	200
61821780	PC 20 / .	4.5 x 4.2	3	3.0 - 4.0	200
61821790	PC 20 / ,	4.5 x 4.2	3	3.0 - 4.0	200
61821800	PC 20 / :	4.5 x 4.2	3	3.0 - 4.0	200
61821810	PC 20 / =	4.5 x 4.2	3	3.0 - 4.0	200
61821820	PC 20 / Earth	4.5 x 4.2	3	3.0 - 4.0	200
61821860	PC 20 / +	4.5 x 4.2	3	3.0 - 4.0	200
61821870	PC 20 / -	4.5 x 4.2	3	3.0 - 4.0	200
61821880	PC 20 / ~	4.5 x 4.2	3	3.0 - 4.0	200
PC 30					
61821900	PC 30 / 0	5.7 x 5.5	3	4.0 - 5.0	200
61821910	PC 30 / 1	5.7 x 5.5	3	4.0 - 5.0	200
61821920	PC 30 / 2	5.7 x 5.5	3	4.0 - 5.0	200
61821930	PC 30 / 3	5.7 x 5.5	3	4.0 - 5.0	200
61821940	PC 30 / 4	5.7 x 5.5	3	4.0 - 5.0	200
61821950	PC 30 / 5	5.7 x 5.5	3	4.0 - 5.0	200
61821960	PC 30 / 6	5.7 x 5.5	3	4.0 - 5.0	200
61821970	PC 30 / 7	5.7 x 5.5	3	4.0 - 5.0	200
61821980	PC 30 / 8	5.7 x 5.5	3	4.0 - 5.0	200
61821990	PC 30 / 9	5.7 x 5.5	3	4.0 - 5.0	200
61822000	PC 30 / blanc	5.7 x 5.5	3	4.0 - 5.0	200
61822010	PC 30 / A	5.7 x 5.5	3	4.0 - 5.0	200
61822020	PC 30 / B	5.7 x 5.5	3	4.0 - 5.0	200
61822030	PC 30 / C	5.7 x 5.5	3	4.0 - 5.0	200
61822040	PC 30 / D	5.7 x 5.5	3	4.0 - 5.0	200
61822050	PC 30 / E	5.7 x 5.5	3	4.0 - 5.0	200
61822060	PC 30 / F	5.7 x 5.5	3	4.0 - 5.0	200
61822070	PC 30 / G	5.7 x 5.5	3	4.0 - 5.0	200
61822080	PC 30 / H	5.7 x 5.5	3	4.0 - 5.0	200
61822090	PC 30 / I	5.7 x 5.5	3	4.0 - 5.0	200
61822100	PC 30 / J	5.7 x 5.5	3	4.0 - 5.0	200
61822110	PC 30 / K	5.7 x 5.5	3	4.0 - 5.0	200
61822120	PC 30 / L	5.7 x 5.5	3	4.0 - 5.0	200
61822130	PC 30 / M	5.7 x 5.5	3	4.0 - 5.0	200
61822140	PC 30 / N	5.7 x 5.5	3	4.0 - 5.0	200
61822150	PC 30 / O	5.7 x 5.5	3	4.0 - 5.0	200
61822160	PC 30 / P	5.7 x 5.5	3	4.0 - 5.0	200
61822170	PC 30 / Q	5.7 x 5.5	3	4.0 - 5.0	200
61822180	PC 30 / R	5.7 x 5.5	3	4.0 - 5.0	200
61822190	PC 30 / S	5.7 x 5.5	3	4.0 - 5.0	200
61822200	PC 30 / T	5.7 x 5.5	3	4.0 - 5.0	200
61822210	PC 30 / U	5.7 x 5.5	3	4.0 - 5.0	200
61822220	PC 30 / V	5.7 x 5.5	3	4.0 - 5.0	200
61822230	PC 30 / W	5.7 x 5.5	3	4.0 - 5.0	200
61822240	PC 30 / X	5.7 x 5.5	3	4.0 - 5.0	200
61822250	PC 30 / Y	5.7 x 5.5	3	4.0 - 5.0	200
61822260	PC 30 / Z	5.7 x 5.5	3	4.0 - 5.0	200
61822270	PC 30 / /	5.7 x 5.5	3	4.0 - 5.0	200
61822280	PC 30 / .	5.7 x 5.5	3	4.0 - 5.0	200
61822290	PC 30 / ,	5.7 x 5.5	3	4.0 - 5.0	200
61822300	PC 30 / :	5.7 x 5.5	3	4.0 - 5.0	200
61822310	PC 30 / =	5.7 x 5.5	3	4.0 - 5.0	200
61822320	PC 30 / Earth	5.7 x 5.5	3	4.0 - 5.0	200
61822360	PC 30 / +	5.7 x 5.5	3	4.0 - 5.0	200
61822370	PC 30 / -	5.7 x 5.5	3	4.0 - 5.0	200
61822380	PC 30 / ~	5.7 x 5.5	3	4.0 - 5.0	200
PC 40					
61822400	PC 40 / 0	6.9 x 6.7	4	5.0 - 6.2	200
61822410	PC 40 / 1	6.9 x 6.7	4	5.0 - 6.2	200
61822420	PC 40 / 2	6.9 x 6.7	4	5.0 - 6.2	200
61822430	PC 40 / 3	6.9 x 6.7	4	5.0 - 6.2	200
61822440	PC 40 / 4	6.9 x 6.7	4	5.0 - 6.2	200
61822450	PC 40 / 5	6.9 x 6.7	4	5.0 - 6.2	200
61822460	PC 40 / 6	6.9 x 6.7	4	5.0 - 6.2	200
61822470	PC 40 / 7	6.9 x 6.7	4	5.0 - 6.2	200
61822480	PC 40 / 8	6.9 x 6.7	4	5.0 - 6.2	200
61822490	PC 40 / 9	6.9 x 6.7	4	5.0 - 6.2	200
61822500	PC 40 / blanc	6.9 x 6.7	4	5.0 - 6.2	200
61822510	PC 40 / A	6.9 x 6.7	4	5.0 - 6.2	200
61822520	PC 40 / B	6.9 x 6.7	4	5.0 - 6.2	200
61822530	PC 40 / C	6.9 x 6.7	4	5.0 - 6.2	200
61822540	PC 40 / D	6.9 x 6.7	4	5.0 - 6.2	200
61822550	PC 40 / E	6.9 x 6.7	4	5.0 - 6.2	200
61822560	PC 40 / F	6.9 x 6.7	4	5.0 - 6.2	200
61822570	PC 40 / G	6.9 x 6.7	4	5.0 - 6.2	200
61822580	PC 40 / H	6.9 x 6.7	4	5.0 - 6.2	200
61822590	PC 40 / I	6.9 x 6.7	4	5.0 - 6.2	200
61822600	PC 40 / J	6.9 x 6.7	4	5.0 - 6.2	200
61822610	PC 40 / K	6.9 x 6.7	4	5.0 - 6.2	200
61822620	PC 40 / L	6.9 x 6.7	4	5.0 - 6.2	200
61822630	PC 40 / M	6.9 x 6.7	4	5.0 - 6.2	200
61822640	PC 40 / N	6.9 x 6.7	4	5.0 - 6.2	200
61822650	PC 40 / O	6.9 x 6.7	4	5.0 - 6.2	200
61822660	PC 40 / P	6.9 x 6.7	4	5.0 - 6.2	200
61822670	PC 40 / Q	6.9 x 6.7	4	5.0 - 6.2	200
61822680	PC 40 / R	6.9 x 6.7	4	5.0 - 6.2	200
61822690	PC 40 / S	6.9 x 6.7	4	5.0 - 6.2	200
61822700	PC 40 / T	6.9 x 6.7	4	5.0 - 6.2	200
61822710	PC 40 / U	6.9 x 6.7	4	5.0 - 6.2	200
61822720	PC 40 / V	6.9 x 6.7	4	5.0 - 6.2	200
61822730	PC 40 / W	6.9 x 6.7	4	5.0 - 6.2	200
61822740	PC 40 / X	6.9 x 6.7	4	5.0 - 6.2	200
61822750	PC 40 / Y	6.9 x 6.7	4	5.0 - 6.2	200
61822760	PC 40 / Z	6.9 x 6.7	4	5.0 - 6.2	200
61822770	PC 40 / /	6.9 x 6.7	4	5.0 - 6.2	200
61822780	PC 40 / .	6.9 x 6.7	4	5.0 - 6.2	200
61822790	PC 40 / ,	6.9 x 6.7	4	5.0 - 6.2	200
61822800	PC 40 / :	6.9 x 6.7	4	5.0 - 6.2	200
61822810	PC 40 / =	6.9 x 6.7	4	5.0 - 6.2	200
61822820	PC 40 / Earth	6.9 x 6.7	4	5.0 - 6.2	200
61822860	PC 40 / +	6.9 x 6.7	4	5.0 - 6.2	200
61822870	PC 40 / -	6.9 x 6.7	4	5.0 - 6.2	200
61822880	PC 40 / ~	6.9 x 6.7	4	5.0 - 6.2	200

Part numbers for various marks please see next page

PCG Mounting tools

■ Application range

- PCG 10-20 and PCG 30-40 are tools to make installation easier in locations that are difficult to access.

■ Technical data

	Note LxWxD: 102 x 15 x 4 mm
	Material ABS plastic
	Range of temperature -30°C bis + 70°C



Part number	Article designation	Colour	Suitable for:	Pieces / PU
61822900	Installation tool PCG 10-20/30-40	orange + yellow	PC 10, PC 20, PC 30, PC 40	1

■ Accessories

- Marking rings PC 10 see page 857

Storage box

■ Benefits

- Simplest assignment
- With 18 storage compartments

■ Application range

- PA marking rings
- PC marking rings



Part number	Article designation	Dimensions W x H x D in mm	Pieces / PU
61794910	Storage box	250.0 x 46.0 x 170.0	1

Marking rings PA



■ Application range

Marking rings PA02

- Marking before assembly
- Thanks to the special profile with spring effect, only 4 different sizes cover a cross-section range of 0.2 to 70 mm².
- The anti-rotation protection enables reliable combination marking.

- These closed marking rings are intended for cables that are not yet connected.

■ Approvals (Norm references)



■ Technical data



Approvals
UL 94 V0



Note
Resistance: self-extinguishing



Colour delivered
Yellow



Material
Cadmium free soft PVC



Range of temperature
-30°C up to +70°C

Part number	Article designation	Width x height mm	Sleeve length mm	Area of application Ø mm	Pieces / PU
PA 02					
61817800	PA 02 / 0	3.5 x 3.6	3	1.3 - 3.0	200
61817810	PA 02 / 1	3.5 x 3.6	3	1.3 - 3.0	200
61817820	PA 02 / 2	3.5 x 3.6	3	1.3 - 3.0	200
61817830	PA 02 / 3	3.5 x 3.6	3	1.3 - 3.0	200
61817840	PA 02 / 4	3.5 x 3.6	3	1.3 - 3.0	200
61817850	PA 02 / 5	3.5 x 3.6	3	1.3 - 3.0	200
61817860	PA 02 / 6	3.5 x 3.6	3	1.3 - 3.0	200
61817870	PA 02 / 7	3.5 x 3.6	3	1.3 - 3.0	200
61817880	PA 02 / 8	3.5 x 3.6	3	1.3 - 3.0	200
61817890	PA 02 / 9	3.5 x 3.6	3	1.3 - 3.0	200
61817900	PA 02 / blanc	3.5 x 3.6	3	1.3 - 3.0	200
61817910	PA 02 / A	3.5 x 3.6	3	1.3 - 3.0	200
61817920	PA 02 / B	3.5 x 3.6	3	1.3 - 3.0	200
61817930	PA 02 / C	3.5 x 3.6	3	1.3 - 3.0	200
61817940	PA 02 / D	3.5 x 3.6	3	1.3 - 3.0	200
61817950	PA 02 / E	3.5 x 3.6	3	1.3 - 3.0	200
61817960	PA 02 / F	3.5 x 3.6	3	1.3 - 3.0	200
61817970	PA 02 / G	3.5 x 3.6	3	1.3 - 3.0	200
61817980	PA 02 / H	3.5 x 3.6	3	1.3 - 3.0	200
61817990	PA 02 / I	3.5 x 3.6	3	1.3 - 3.0	200
61818000	PA 02 / J	3.5 x 3.6	3	1.3 - 3.0	200
61818011	PA 02 / K	3.5 x 3.6	3	1.3 - 3.0	200
61818020	PA 02 / L	3.5 x 3.6	3	1.3 - 3.0	200
61818030	PA 02 / M	3.5 x 3.6	3	1.3 - 3.0	200
61818040	PA 02 / N	3.5 x 3.6	3	1.3 - 3.0	200
61818050	PA 02 / O	3.5 x 3.6	3	1.3 - 3.0	200
61818060	PA 02 / P	3.5 x 3.6	3	1.3 - 3.0	200
61818070	PA 02 / Q	3.5 x 3.6	3	1.3 - 3.0	200
61818080	PA 02 / R	3.5 x 3.6	3	1.3 - 3.0	200
61818090	PA 02 / S	3.5 x 3.6	3	1.3 - 3.0	200
61819100	PA 02 / T	3.5 x 3.6	3	1.3 - 3.0	200
61819110	PA 02 / U	3.5 x 3.6	3	1.3 - 3.0	200
61819120	PA 02 / V	3.5 x 3.6	3	1.3 - 3.0	200
61819130	PA 02 / W	3.5 x 3.6	3	1.3 - 3.0	200
61819140	PA 02 / X	3.5 x 3.6	3	1.3 - 3.0	200
61819150	PA 02 / Y	3.5 x 3.6	3	1.3 - 3.0	200
61819160	PA 02 / Z	3.5 x 3.6	3	1.3 - 3.0	200
61819170	PA 02 / /	3.5 x 3.6	3	1.3 - 3.0	200
61819180	PA 02 / .	3.5 x 3.6	3	1.3 - 3.0	200
61819190	PA 02 / ,	3.5 x 3.6	3	1.3 - 3.0	200
61819200	PA 02 / :	3.5 x 3.6	3	1.3 - 3.0	200
61819210	PA 02 / =	3.5 x 3.6	3	1.3 - 3.0	200
61819220	PA 02 / Earth	3.5 x 3.6	3	1.3 - 3.0	200
61819260	PA 02 / +	3.5 x 3.6	3	1.3 - 3.0	200
61819270	PA 02 / -	3.5 x 3.6	3	1.3 - 3.0	200
61819280	PA 02 / ~	3.5 x 3.6	3	1.3 - 3.0	200
PA 1					
61819300	PA 1 / 0	4.2 x 5.5	3	2.5 - 5.0	200
61819310	PA 1 / 1	4.2 x 5.5	3	2.5 - 5.0	200
61819320	PA 1 / 2	4.2 x 5.5	3	2.5 - 5.0	200
61819330	PA 1 / 3	4.2 x 5.5	3	2.5 - 5.0	200
61819360	PA 1 / 6	4.2 x 5.5	3	2.5 - 5.0	200
61819340	PA 1 / 4	4.2 x 5.5	3	2.5 - 5.0	200
61819350	PA 1 / 5	4.2 x 5.5	3	2.5 - 5.0	200
61819370	PA 1 / 7	4.2 x 5.5	3	2.5 - 5.0	200
61819380	PA 1 / 8	4.2 x 5.5	3	2.5 - 5.0	200
61819390	PA 1 / 9	4.2 x 5.5	3	2.5 - 5.0	200
61819400	PA 1 / blanc	4.2 x 5.5	3	2.5 - 5.0	200
61819410	PA 1 / A	4.2 x 5.5	3	2.5 - 5.0	200
61819420	PA 1 / B	4.2 x 5.5	3	2.5 - 5.0	200
61819430	PA 1 / C	4.2 x 5.5	3	2.5 - 5.0	200
61819440	PA 1 / D	4.2 x 5.5	3	2.5 - 5.0	200
61819450	PA 1 / E	4.2 x 5.5	3	2.5 - 5.0	200
61819460	PA 1 / F	4.2 x 5.5	3	2.5 - 5.0	200
61819470	PA 1 / G	4.2 x 5.5	3	2.5 - 5.0	200
61819480	PA 1 / H	4.2 x 5.5	3	2.5 - 5.0	200
61819490	PA 1 / I	4.2 x 5.5	3	2.5 - 5.0	200
61819500	PA 1 / J	4.2 x 5.5	3	2.5 - 5.0	200
61819510	PA 1 / K	4.2 x 5.5	3	2.5 - 5.0	200
61819520	PA 1 / L	4.2 x 5.5	3	2.5 - 5.0	200
61819530	PA 1 / M	4.2 x 5.5	3	2.5 - 5.0	200
61819540	PA 1 / N	4.2 x 5.5	3	2.5 - 5.0	200
61819550	PA 1 / O	4.2 x 5.5	3	2.5 - 5.0	200
61819560	PA 1 / P	4.2 x 5.5	3	2.5 - 5.0	200
61819570	PA 1 / Q	4.2 x 5.5	3	2.5 - 5.0	200
61819580	PA 1 / R	4.2 x 5.5	3	2.5 - 5.0	200
61819590	PA 1 / S	4.2 x 5.5	3	2.5 - 5.0	200
61819600	PA 1 / T	4.2 x 5.5	3	2.5 - 5.0	200
61819610	PA 1 / U	4.2 x 5.5	3	2.5 - 5.0	200
61819620	PA 1 / V	4.2 x 5.5	3	2.5 - 5.0	200

Part number	Article designation	Width x height mm	Sleeve length mm	Area of application Ø mm	Pieces / PU
61819630	PA 1 / W	4.2 x 5.5	3	2.5 - 5.0	200
61819640	PA 1 / X	4.2 x 5.5	3	2.5 - 5.0	200
61819650	PA 1 / Y	4.2 x 5.5	3	2.5 - 5.0	200
61819660	PA 1 / Z	4.2 x 5.5	3	2.5 - 5.0	200
61819670	PA 1 / /	4.2 x 5.5	3	2.5 - 5.0	200
61819680	PA 1 / .	4.2 x 5.5	3	2.5 - 5.0	200
61819690	PA 1 / ,	4.2 x 5.5	3	2.5 - 5.0	200
61819700	PA 1 / :	4.2 x 5.5	3	2.5 - 5.0	200
61819710	PA 1 / =	4.2 x 5.5	3	2.5 - 5.0	200
61819720	PA 1 / Earth	4.2 x 5.5	3	2.5 - 5.0	200
61819760	PA 1 / +	4.2 x 5.5	3	2.5 - 5.0	200
61819770	PA 1 / -	4.2 x 5.5	3	2.5 - 5.0	200
61819780	PA 1 / ~	4.2 x 5.5	3	2.5 - 5.0	200
PA 2					
61819800	PA 2 / 0	6.6 x 9.5	4	4.0 - 10.0	100
61819810	PA 2 / 1	6.6 x 9.5	4	4.0 - 10.0	100
61819820	PA 2 / 2	6.6 x 9.5	4	4.0 - 10.0	100
61819830	PA 2 / 3	6.6 x 9.5	4	4.0 - 10.0	100
61819840	PA 2 / 4	6.6 x 9.5	4	4.0 - 10.0	100
61819850	PA 2 / 5	6.6 x 9.5	4	4.0 - 10.0	100
61819860	PA 2 / 6	6.6 x 9.5	4	4.0 - 10.0	100
61819870	PA 2 / 7	6.6 x 9.5	4	4.0 - 10.0	100
61819880	PA 2 / 8	6.6 x 9.5	4	4.0 - 10.0	100
61819890	PA 2 / 9	6.6 x 9.5	4	4.0 - 10.0	100
61819900	PA 2 / blanko	6.6 x 9.5	4	4.0 - 10.0	100
61819910	PA 2 / A	6.6 x 9.5	4	4.0 - 10.0	100
61819920	PA 2 / B	6.6 x 9.5	4	4.0 - 10.0	100
61819930	PA 2 / C	6.6 x 9.5	4	4.0 - 10.0	100
61819940	PA 2 / D	6.6 x 9.5	4	4.0 - 10.0	100
61819950	PA 2 / E	6.6 x 9.5	4	4.0 - 10.0	100
61819960	PA 2 / F	6.6 x 9.5	4	4.0 - 10.0	100
61819970	PA 2 / G	6.6 x 9.5	4	4.0 - 10.0	100
61819980	PA 2 / H	6.6 x 9.5	4	4.0 - 10.0	100
61819990	PA 2 / I	6.6 x 9.5	4	4.0 - 10.0	100
61820000	PA 2 / J	6.6 x 9.5	4	4.0 - 10.0	100
61820010	PA 2 / K	6.6 x 9.5	4	4.0 - 10.0	100
61820020	PA 2 / L	6.6 x 9.5	4	4.0 - 10.0	100
61820030	PA 2 / M	6.6 x 9.5	4	4.0 - 10.0	100
61820040	PA 2 / N	6.6 x 9.5	4	4.0 - 10.0	100
61820050	PA 2 / O	6.6 x 9.5	4	4.0 - 10.0	100
61820060	PA 2 / P	6.6 x 9.5	4	4.0 - 10.0	100
61820070	PA 2 / Q	6.6 x 9.5	4	4.0 - 10.0	100
61820080	PA 2 / R	6.6 x 9.5	4	4.0 - 10.0	100
61820090	PA 2 / S	6.6 x 9.5	4	4.0 - 10.0	100
61820100	PA 2 / T	6.6 x 9.5	4	4.0 - 10.0	100
61820110	PA 2 / U	6.6 x 9.5	4	4.0 - 10.0	100
61820120	PA 2 / V	6.6 x 9.5	4	4.0 - 10.0	100
61820130	PA 2 / W	6.6 x 9.5	4	4.0 - 10.0	100
61820140	PA 2 / X	6.6 x 9.5	4	4.0 - 10.0	100
61820150	PA 2 / Y	6.6 x 9.5	4	4.0 - 10.0	100
61820160	PA 2 / Z	6.6 x 9.5	4	4.0 - 10.0	100
61820170	PA 2 / /	6.6 x 9.5	4	4.0 - 10.0	100
61820180	PA 2 / .	6.6 x 9.5	4	4.0 - 10.0	100
61820190	PA 2 / ,	6.6 x 9.5	4	4.0 - 10.0	100
61820200	PA 2 / :	6.6 x 9.5	4	4.0 - 10.0	100
61820210	PA 2 / =	6.6 x 9.5	4	4.0 - 10.0	100
61820220	PA 2 / Earth	6.6 x 9.5	4	4.0 - 10.0	100
61820260	PA 2 / +	6.6 x 9.5	4	4.0 - 10.0	100
61820270	PA 2 / -	6.6 x 9.5	4	4.0 - 10.0	100
61820280	PA 2 / ~	6.6 x 9.5	4	4.0 - 10.0	100
PA 3					
61820300	PA 3 / 0	11.0 x 16.5	6	8.0 - 16.0	20
61820310	PA 3 / 1	11.0 x 16.5	6	8.0 - 16.0	20
61820320	PA 3 / 2	11.0 x 16.5	6	8.0 - 16.0	20
61820330	PA 3 / 3	11.0 x 16.5	6	8.0 - 16.0	20
61820340	PA 3 / 4	11.0 x 16.5	6	8.0 - 16.0	20
61820350	PA 3 / 5	11.0 x 16.5	6	8.0 - 16.0	20
61820360	PA 3 / 6	11.0 x 16.5	6	8.0 - 16.0	20
61820370	PA 3 / 7	11.0 x 16.5	6	8.0 - 16.0	20
61820380	PA 3 / 8	11.0 x 16.5	6	8.0 - 16.0	20
61820390	PA 3 / 9	11.0 x 16.5	6	8.0 - 16.0	20
61820400	PA 3 / blanc	11.0 x 16.5	6	8.0 - 16.0	20
61820410	PA 3 / A	11.0 x 16.5	6	8.0 - 16.0	20
61820420	PA 3 / B	11.0 x 16.5	6	8.0 - 16.0	20
61820430	PA 3 / C	11.0 x 16.5	6	8.0 - 16.0	20
61820440	PA 3 / D	11.0 x 16.5	6	8.0 - 16.0	20
61820450	PA 3 / E	11.0 x 16.5	6	8.0 - 16.0	20
61820460	PA 3 / F	11.0 x 16.5	6	8.0 - 16.0	20
61820470	PA 3 / G	11.0 x 16.5	6	8.0 - 16.0	20
61820480	PA 3 / H	11.0 x 16.5	6	8.0 - 16.0	20
61820490	PA 3 / I	11.0 x 16.5	6	8.0 - 16.0	20
61820500	PA 3 / J	11.0 x 16.5	6	8.0 - 16.0	20
61820510	PA 3 / K	11.0 x 16.5	6	8.0 - 16.0	20
61820520	PA 3 / L	11.0 x 16.5	6	8.0 - 16.0	20
61820530	PA 3 / M	11.0 x 16.5	6	8.0 - 16.0	20
61820540	PA 3 / N	11.0 x 16.5	6	8.0 - 16.0	20
61820550	PA 3 / O	11.0 x 16.5	6	8.0 - 16.0	20
61820560	PA 3 / P	11.0 x 16.5	6	8.0 - 16.0	20
61820570	PA 3 / Q	11.0 x 16.5	6	8.0 - 16.0	20
61820580	PA 3 / R	11.0 x 16.5	6	8.0 - 16.0	20
61820590	PA 3 / S	11.0 x 16.5	6	8.0 - 16.0	20
61820600	PA 3 / T	11.0 x 16.5	6	8.0 - 16.0	20
61820610	PA 3 / U	11.0 x 16.5	6	8.0 - 16.0	20
61820620	PA 3 / V	11.0 x 16.5	6	8.0 - 16.0	20
61820630	PA 3 / W	11.0 x 16.5	6	8.0 - 16.0	20
61820640	PA 3 / X	11.0 x 16.5	6	8.0 - 16.0	20
61820650	PA 3 / Y	11.0 x 16.5	6	8.0 - 16.0	20
61820660	PA 3 / Z	11.0 x 16.5	6	8.0 - 16.0	20
61820670	PA 3 / /	11.0 x 16.5	6	8.0 - 16.0	20
61820680	PA 3 / .	11.0 x 16.5	6	8.0 - 16.0	20
61820720	PA 3 / Earth	11.0 x 16.5	6	8.0 - 16.0	20
61820760	PA 3 / +	11.0 x 16.5	6	8.0 - 16.0	20
61820770	PA 3 / -	11.0 x 16.5	6	8.0 - 16.0	20
61820780	PA 3 / ~	11.0 x 16.5	6	8.0 - 16.0	20

Part numbers for various marks please see next page

PAD Mounting rod



■ Benefits

- The long cylindrical PAD mounting rod makes it easier to label stripped conductors. The effective aid therefore reduces mounting time.

■ Application range

- Marking before assembly

Part number	Article designation	Up to cable diameter mm	Suitable for:	Pieces / PU
61822920	PAD 3 Installation tool	3.1	PA 02	1
61822930	PAD 4 Installation tool	3.5	PA 1	1
61822940	PAD 5 Installation tool	4.5	PA 1	1

■ Accessories

- Marking rings PA02 see page 860

PAV Mounting tool



■ Benefits

- This U-shaped mounting tool of stainless steel makes marking considerably easier.
- It is suitable to mount the marking rings from both the right and the left of the conductor.

■ Application range

- Marking before assembly

Part number	Article designation	Up to cable diameter mm	Suitable for:	Pieces / PU
61822960	PAV 02 Installation tool	3.0	PA 02	1
61822970	PAV 10 Installation tool	4.0	PA 1	1

■ Accessories

- Marking rings PA02 see page 860

PT Marking sleeves



PT Marking sleeves

Benefits

- Flexible design of the sleeve allows it to be attached quickly and easily to the conductor.

Application range

- Marking before assembly
- This enclosed transparent sleeve with a label pocket is used to hold PF labels.
- PT marking sleeve allows the PF label to be attached before or after installing the sleeve.
- The label is simply inserted into the sleeve.

Product features

- Resistant against gamma and UV rays

Approvals (Norm references)



Design

- Cross-section: 0.25 to 75.0 mm²

Technical data



Note

Resistance: against gamma and UV rays; self-extinguishing



Material

Cadmium free soft PVC



Range of temperature

-30 °C up to +70 °C

Part number	Article designation	Length x Width x Height mm	Area of application Ø mm	Suitable PF labels	Cable Ø	Pieces / PU
61823000	PT-02015	15 x 6.5 x 5.5	1.3 - 3.0	PF-10015	0.25 - 1.5	200
61823010	PT-10015	15 x 6.5 x 7	2.5 - 5.0	PF-10015	1.5 - 4	200
61823020	PT-20015	15 x 6.5 x 9.5	4.0 - 10.0	PF-10015	2.5 - 16	100
61823030	PT-30015	15 x 9.5 x 15	8.0 - 16.0	PF-10015	16 - 75	50
61823040	PT-02021	21 x 6.5 x 5.5	1.3 - 3.0	LFL 4,2x21 oder PF-10021	0.25 - 1.5	200
61823050	PT-10021	21 x 6.5 x 7	2.5 - 5.0	LFL 4,2x21 oder PF-10021	1.5 - 4	200
61823060	PT-20021	21 x 6.5 x 9.5	4.0 - 10.0	LFL 4,2x21 oder PF-10021	2.5 - 16	100
61823070	PT-30021	21 x 9.5 x 15	8.0 - 16.0	LFL 4,2x21 oder PF-10021	16 - 75	50

Application range

- Marking before assembly
- PF labels are suitable for the PT character holders.

Product features

- Resistant against most solvents

Approvals (Norm references)



Technical data



General

Resistant against most solvents



Material

Halogen-free polyester film



Range of temperature

-30 °C up to +120 °C

PF Labels



Note

- A laser printer can be used to print the labels and they are easy to separate due to the perforated edges.
- Printable on both sides

Part number	Article designation	Length x Height mm	Labels per side	Pages / PU	Labels / PU	PU
61823110	PF-10015	15.0 x 4.6	792	1	792	1

Accessories

- Character holders PTEF / CAB (D) see page 867
- PT Marking sleeves see page 863

FLEXIMARK® MINI

Flexible, quick and effective marking for variable applications. The extensive range of the FLEXIMARK® marking system with components that

are coordinated with each other provides you with very economical and tailored-to-your needs possibilities for marking.

Advantages

- Suitable for cable and components
- Individualised “do-it-yourself” marking
- Multitude of combinations
- Cost-saving
- On-site assembly or at the workplace (e.g. PC marking of LFL labels)
- Also available as customer-specific marking F.C.C.

FLEXIMARK® MINI

Capacities

(type 6 and 9.5 mm)

Character capacities, character carrier; installation profile.



Matching character strips and labels

Character and text strips; printer LFL labels, label rolls.



Accessories

Locking buttons; end caps; special hole-punches; label protection; marking pens; marking software FL-Soft; cable ties (2.4 mm).



Applications

(inside and outside):

- Marking of large cables and lines
- Marking of tubes
- Operating material marking
- As a signpost
- As a poster
- Office marking

FLEXIMARK® MAXI (on request)

Capacities

(type 12, 19 and 25)

Character capacities, character carrier; installation profile.



Matching character strips and labels

Character and text strips, label rolls.



Accessories

Locking buttons; special hole-punches; label protection; marking pens; marking software FL-Soft; cable ties (2.4 mm).



Applications

(inside and outside):

- Cable marking
- Tube marking
- Service cabinet labeling
- Operating materials labeling
- Office materials marking

System summary:

System	Capacities	type	height mm	Matching character strips and labels
MINI	Character capacity Standard PTE	6	6.7	- Flexilabel LFL 6m(on request) - 6 mm Label rolls
MINI	Character capacity - Standard PTE - self-adhesive SK - ready-made PTEF/CAB	9.5	9.5	- Flexilabel LFL 10 mm in various lengths - MINI characters and text strips - label rolls 9 mm
MINI	Character carrier PGS	9.5	9.5	- Flexilabel LFL in various lengths - Character and text strips
MAXI	Character capacity - Standard PTE - self-adhesive SK - ready-made PTEF/CAB	12 19 25	13 19.8 25.6	- Label rolls 12 mm - Label rolls 19 mm - Maxi character and text strips - Label rolls 24 mm
MAXI	Character carrier PGS	19	19.8	- Label rolls 19 mm - Maxi Character and text strips

MINI- Box Starter-Set



MINI- Box Starter-Set

■ Application range

- Cable and component marking system
- Automotive industry
- Plant engineering

■ Approvals (Norm references)



■ Scope of delivery

- Two character strips (letters, numbers, symbols, blank) with 10 markers for each character

- 40 locking buttons, 20 end pieces, 1 pair of special pliers (two alternatives), one bag of cable ties
- Two 285 mm MINI PGS holders
- Seven (for PTE) or two (for SK) 285-mm pieces of the standard character holder

Part number	Article designation	Pieces / PU
83252001	MINI - Box - with FL52 ERA	1
83251996	MINI - Box - with FL52A	1
83252002	MINI - Box empty	1

Character holders MINI



Character holders MINI

■ Benefits

- Overview of character holders and suitable labels, see overview FLEXIMARK® MINI labeling system (system list)

■ Application range

- MINI character holders are suitable for holding text and character strips, printable labels LFL and e.g. DYMO label strips
- E.g. cable/conduit marking
- Automotive industry
- Plant engineering

■ Approvals (Norm references)



■ Design

- With cable ties of 2.6mm (for outside use UV resistant cable ties) or fixing the MINI character holders with screws and rivets using end caps
- SA (self-adhesive) Standard character holder MINI (type 9.5) in different lengths for smooth surfaces.
- PTE standard character holder MINI (type 6 and 9.5) in different lengths.

■ Suitable tools

- FL52 - ERA special hole pliers see page 868
- FL 52A special hole pliers see page 868

■ Technical data



Note

UV filter protects the marking to be held and guarantees durability



Material

Halogen-free polyethylene

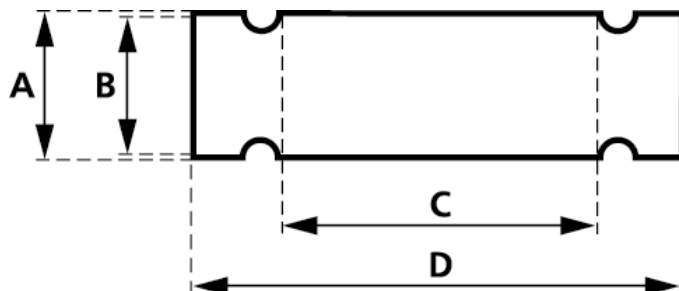


Range of temperature

-75°C up to +80°C

Part number	Article designation	Length in mm	Max. holder height in mm	Suitable tools	m / PU
PTE standard character holder - MINI					
83253012	PTE 6 - 1000	1,000.0	6.7	FL52 - ERA, FL 52 A	10
83259950	PTE 6 - 10000	10,000.0	6.7	FL52 - ERA, FL 52 A	1
83253010	PTE 6 - 25MB	25,000.0	6.7	FL52 - ERA, FL 52 A	1
83252081	PTE 9,5 - 285	285.0	9.5	FL52 - ERA, FL 52 A	10
83252084	PTE 9,5 - 1000	1,000.0	9.5	FL52 - ERA, FL 52 A	10
83259951	PTE 9,5 - 10000	10,000.0	9.5	FL52 - ERA, FL 52 A	1
83252094	PTE 9,5 - 25MB	25,000.0	9.5	FL52 - ERA, FL 52 A	1
PTE standard character holder - MAXI					
83252028	PTE 12 - 285	285.0	13.0	FL52 - ERA, FL 52 A	10
83252027	PTE 12 - 1000	1,000.0	13.0	FL52 - ERA, FL 52 A	10
83252029	PTE 12 - 25 MB	25,000.0	13.0	FL52 - ERA, FL 52 A	1
83251060	PTE 19 - 285	285.0	19.8	FL 52 A	10
83251061	PTE 19 - 1000	1,000.0	19.8	FL 52 A	10
83251062	PTE 19 - 25 MB	25,000.0	19.8	FL 52 A	1
83252512	PTE 25 - 10MB	10,000.0	25.6	FL 52 A	1
SA standard character holder - MINI					
83252086	SK 9,5 - 285	285.0	9.5	FL 52 A	10
83252089	SK 9,5 - 1000	1,000.0	9.5	FL 52 A	10
SA standard character holder - MAXI					
83251063	SK 19 - 285	285.0	19.8	FL 52 A	10
83250017	SK 19 - 1000	1,000.0	19.8	FL 52 A	10

Character holders PTEF/ CAB (D)



Character holders PTEF/ CAB (D)

■ Benefits

- UV filter protects the marking to be held
- Guarantees durability

■ Application range

- Switch cabinet building
- Plant engineering

■ Approvals (Norm references)



■ Note

- In outdoor use, UV-resistant (black) cable ties should be used
- Save on price, as you save on time for cutting

■ Design

- PC labels LFL adapted to different character holder sizes which are simply pushed in
- Fastening: by cable ties (2.4 mm) or fixing of the MINI character holders with screws and rivets when using FLG end stoppers

Part number	Article designation	A mm	B in mm	C mm	D mm	Suitable flexi-labels	Pieces / PU
PTEF character holder - without cable tie							
83254960	PTEF 9,5-18	12.2	9.5	18.0	30.0	LFL-17P	50
83254961	PTEF 9,5-28	12.2	9.5	28.0	40.0	LFL-28P	50
83254963	PTEF 9,5-35	12.2	9.5	35.0	47.0	LFL-35P	50
83254962	PTEF 9,5-38	12.2	9.5	38.0	50.0	LFL-35P	50
83254964	PTEF 9,5-58	12.2	9.5	58.0	70.0	2 x LFL28P	50
83254965	PTEF 9,5-70	12.2	9.5	70.0	82.0	LFL-70P	50
83254976	PTEF 12-28	14.8	13.0	28.0	40.0		50
83280006	PTEF 12-18	14.8	13.0	18.0	30.0		50
83254977	PTEF 12-38	14.8	13.0	38.0	50.0		50
83254978	PTEF 12-58	14.8	13.0	58.0	70.0		50
PTEF character holder - with cable tie							
83259087	CAB 9,5-18	12.2	9.5	18.0	30.0	LFL-17P	50
83259084	CAB 9,5-28	12.2	9.5	28.0	40.0	LFL-28P	50
83259085	CAB 9,5-38	12.2	9.5	38.0	50.0	LFL-35P	50
83259086	CAB 9,5-58	12.2	9.5	58.0	70.0	2 x LFL28P	50
83259078	CAB 12-18	14.8	13.0	18.0	30.0		50
83259079	CAB 12-28	14.8	13.0	28.0	40.0		50
83259080	CAB 12-38	14.8	13.0	38.0	50.0		50
83259081	CAB 12-58	14.8	13.0	58.0	70.0		50

■ Accessories

- TY - FAST® standard cable ties see page 962

FLG End plug / FLKA Lock button



FLG End plug



FLKA Lock button

■ Benefits

FLKA Lock button

- The buttons prevent the characters, labels and label strings slipping out of the standard character holders PTE in tag plate mounting

FLG End plug

- Protected against water and dirt
- End caps close the character holders tightly

- Hole above all for fastening the MINI standard character holder PTE with screws or rivets.

■ Application range

- Installation accessories for character holders

■ Approvals (Norm references)



■ Design

FLG End plug

- Hole above all for fastening the MINI standard character holder PTE with screws or rivets.

Part number	Article designation	Colour	Suitable for:	Pieces / PU
83252005	FLKA closing button		MINI	500
83252020	FLG end stopper	yellow	MINI	100

■ Accessories

FLKA Lock button

- MINI- Box Starter-Set see page 865

FL52 - ERA special hole pliers



■ Benefits

- Function for a centred hole
- New puncher permits exact punching of holes for cable ties

■ Application range

- Installation accessories for characters holders - special hole pliers

■ Product features

- The pliers can hold 6-12mm character holders

■ Design

- Lightweight model suitable for all hand sizes
- Pocket size

■ Scope of delivery

- Single parts (cutting and punching device) can be exchanged

Part number	Article designation	Character holder	Pieces / PU
83252047	FL52-ERA	6 / 9,5 / 12	1

■ Accessories

- MINI- Box Starter-Set see page 865
- Character holders MINI see page 866

FL 52A special hole pliers



■ Application range

- Installation accessories for characters holders - special hole pliers
- Can also be used as a knife for shortening character carrier PGS and mounting profile MLM
- Cuts and punches MINI standard PTE character holders (6 to 25)

■ Product features

- The pliers can hold 6-25mm character holders

■ Design

- Lightweight model suitable for all hand sizes
- Pocket size

■ Scope of delivery

- Single parts (cutting and punching device) can be exchanged

Part number	Article designation	Suitable for:	Pieces / PU
83252024	FL 52A	MINI	1

■ Accessories

- MINI- Box Starter-Set see page 865
- Character holders MINI see page 866

Character holders PGS - MINI



■ Benefits

- Assembly: Insert the MINI character strip into the character holder from above

■ Application range

- Character holder + assembly profile
- For marking component groups in the manufacture of control cabinets

■ Product features

- Fastening: pasting or at temperatures > +45°C with screws or rivets

■ Approvals (Norm references)

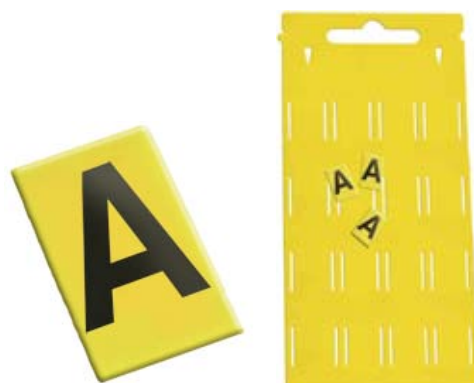


■ Technical data

RAL	Colour delivered Black and white
	Material ABS plastic
	Range of temperature -20°C up to +45°C

Part number	Article designation	Colour	Length x Height mm	Length in mm	Pieces / PU	PU
83252010	PGS 10 - 285	white	285.0 x 10.0		10	1
83250002	PGS 10 - 285	black	285.0 x 10.0		10	1
83250041	Label protection 10-1000	transparent		1,000.0	10	1
83252011	PGS 10 - 1000	white	1,000.0 x 10.0		10	1
83250003	PGS 10 - 1000	black	1,000.0 x 10.0		10	1

Characters strips plastic set MINI / Characters strips plastic MINI



Characters strips plastic MINI

Benefits

Characters strips plastic MINI

- Simple marking

Application range

- Insert strips for MINI character holders

Product features

- First of all, slide the character strips into the character holders as far as the pre-folded bend and then break them off.

Approvals (Norm references)



Technical data



Dimensions

Characters strips plastic MINI

HxW: approx. 9.5 x 6 mm (MINI character)



Colour delivered

Characters strips plastic MINI

Yellow with black lettering
white with black lettering (on request)



Material

Characters strips plastic MINI

Rigid PVC (thickness: 0.75 mm)



Range of temperature

Characters strips plastic MINI

-20°C up to + 65°C

Part number	Article designation	Characters / PU	PU
MINI numbers			
83252330	Character strip MINI 0	200	1
83252331	Character strip MINI 1	200	1
83252332	Character strip MINI 2	200	1
83252333	Character strip MINI 3	200	1
83252334	Character strip MINI 4	200	1
83252335	Character strip MINI 5	200	1
83252336	Character strip MINI 6/9	200	1
83252337	Character strip MINI 7	200	1
83252338	Character strip MINI 8	200	1
MINI letters			
83252300	Character strip MINI A	200	1
83252301	Character strip MINI B	200	1
83252302	Character strip MINI C	200	1
83252303	Character strip MINI D	200	1
83252304	Character strip MINI E	200	1
83252305	Character strip MINI F	200	1
83252306	Character strip MINI G	200	1
83252307	Character strip MINI H	200	1
83252308	Character strip MINI I	200	1
83252309	Character strip MINI J	200	1
83252310	Character strip MINI K	200	1
83252311	Character strip MINI L	200	1
83252312	Character strip MINI M	200	1
83252313	Character strip MINI N	200	1
83252314	Character strip MINI O	200	1
83252315	Character strip MINI P	200	1
83252316	Character strip MINI Q	200	1
83252317	Character strip MINI R	200	1
83252318	Character strip MINI S	200	1
83252319	Character strip MINI T	200	1
83252320	Character strip MINI U	200	1
83252321	Character strip MINI V	200	1
83252322	Character strip MINI W	200	1
83252323	Character strip MINI X	200	1
83252324	Character strip MINI Y	200	1
83280002	Character strip MINI Z	200	1
83252327	Character strip MINI Ä	200	1
83252328	Character strip MINI Ö	200	1
83252340	Character strip MINI Ü	200	1
MINI symbols			
83252058	Character strip MINI +	200	1
83252059	Character strip MINI -	200	1
83252055	Character strip MINI earth	200	1
83252057	Character strip MINI ~	200	1
83252056	Character strip MINI =	200	1
83252061	Character strip MINI .	200	1
83252062	Character strip MINI /	200	1
83252060	Character strip MINI :	200	1
83252076	Character strip MINI x	200	1
83252101	Character strip MINI blanco	200	1
Plastic character strip set			
83250039	123-Pack MINI	200	1
83259021	ABC-Pack MINI	520	1

MINI/ MAXI FCC Cable marking



■ Benefits

- Customised labelling system tailored to your specific requirements and conditions of use.
- Ready-made markers therefore offer an effective and inexpensive marking option
- Products sorted according to the order specified by you
- No time-consuming preparation and installation
- One or two-line printing

■ Application range

- Plant engineering
- Air conditioning technology

■ Product features

- Marker size, colour (white, blue, green, red), font size, pre-assembly and packaging will be customized to your requirements
- Holder for up to 46 characters

■ Approvals (Norm references)



■ Note

- Fastening options:
- For plastic cable ties
- Customized data are transmitted via ASCII File or Excel File to the responsible Lapp employee by e-mail for the order.

■ Scope of delivery

- Markers (including cable ties) are pre-assembled prior to delivery



Info

- Printing service in all colours by ink-jet or print-technology of your choice.

■ Technical data



Dimensions

Max. length approx. 200 mm



Caution

Minimum order value €50.
Printing: corrosive ink



Note

Standard cable tie: natural (black on request)
Cable ties 142 x 4.2 mm



Colour delivered

Standard colour: black lettering against yellow background



Material

Character holder : Halogen-free polyethylene



Range of temperature

-30 °C up to + 70 °C

Part number	Article designation	Colour	Height mm	Pieces / PU
83251300	FCC NAT. CAB 7 YE LABEL	yellow	6.7	50
83251320	FCC NAT. CAB 10 YE LABEL	yellow	10.4	50
83251350	FCC NAT. CAB 19 YE LABEL	yellow	19.8	50

SHRINK MARK FCC-FK Shrink tube marking



Info

- Printing service in all colours by ink-jet or print-technology of your choice.



SHRINK MARK FCC-FK Shrink tube marking

■ Benefits

- Shrinking tube segments are individually printed to customer specifications.
- Simple marking

■ Application range

- Cable and component marking system
- Automotive industry
- Machine and plant construction, Light & Sound

■ Approvals (Norm references)



■ Note

- Following colours available on request: blue, red, yellow, white, transparent

■ Design

- Customized data are transmitted via ASCII File or Excel File to the responsible Lapp employee by e-mail for the order.

■ Technical data



Material

Polyolefine

Shrinking ratio

2:1



Range of temperature

-55°C up to +125°C

Part number	Article designation	Colour	Ø before shrinking, mm	Ø after shrinking, mm	Number of characters	Pieces / PU
83280029	SHRINK MARK FCC-FK 3,2	black	3.2	1.6	1-7	1
83280030	SHRINK MARK FCC-FK 3,2	black	3.2	1.6	8-12	1
83280031	SHRINK MARK FCC-FK 3,2	black	3.2	1.6	13-17	1
83280032	SHRINK MARK FCC-FK 4,8	black	4.8	2.4	1-7	1
83280033	SHRINK MARK FCC-FK 4,8	black	4.8	2.4	8-12	1
83280034	SHRINK MARK FCC-FK 4,8	black	4.8	2.4	13-17	1
83280035	SHRINK MARK FCC-FK 6,4	black	6.4	3.2	1-7	1
83280036	SHRINK MARK FCC-FK 6,4	black	6.4	3.2	8-12	1
83280037	SHRINK MARK FCC-FK 6,4	black	6.4	3.2	13-17	1
83280038	SHRINK MARK FCC-FK 9,5	black	9.5	4.7	1-7	1
83280039	SHRINK MARK FCC-FK 9,5	black	9.5	4.7	8-12	1
83280040	SHRINK MARK FCC-FK 9,5	black	9.5	4.7	13-17	1
83280041	SHRINK MARK FCC-FK 12,7	black	12.7	6.3	1-7	1
83280042	SHRINK MARK FCC-FK 12,7	black	12.7	6.3	8-12	1
83280043	SHRINK MARK FCC-FK 12,7	black	12.7	6.3	13-17	1
83280044	SHRINK MARK FCC-FK 19,1	black	19.1	9.5	1-7	1
83280045	SHRINK MARK FCC-FK 19,1	black	19.1	9.5	8-12	1
83280046	SHRINK MARK FCC-FK 19,1	black	19.1	9.5	13-17	1

■ Accessories

- HG 2310 LCD hot-air pistol see page 957

Stainless steel - Box Starter - Set



■ Benefits

- The basic equipment of the FLEXIMARK® stainless steel system in the handy box

■ Approvals (Norm references)



■ Scope of delivery

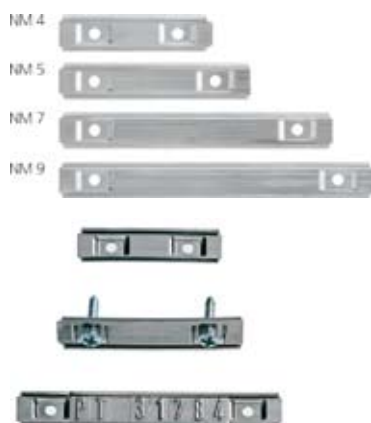
- With special round pliers
- 1920 single characters (40 pieces each available in the characters A-Z, numbers 0-9, various symbols and blank strips)
- Five character holders with lengths of 286, 106, 82, 58 and 46 mm

Part number	Article designation	PU
83254220	Stainless steel box	1
83280047	Stainless steel box with pliers	1

■ Accessories

- MR Stainless steel - character holders see page 874

NM Stainless steel - character holders



■ Benefits

- Cable and component marking system

■ Application range

- Outdoor applications

■ Product features

- Holder for up to 46 characters
- Character holder with counter-sunk fastener for steel cable ties and screw hole
- In five different sizes

■ Approvals (Norm references)



■ Design

- Screws and rivets (up to max. 3 mm Ø)
- Steel cable ties AE 601 up to 7 mm width
- Steel cable ties LS up to 7 mm width

■ Technical data

Info
Height approx. 11 mm
Screw hole Ø: 3 mm
Material
Stainless steel, acid resistant SS 2348 (AISI 316)
Range of temperature
Max. temperature: +500°C

Part number	Article designation	Length in mm	Characters / PU	Pieces / PU
83254214	Character holder NM 4	46.0	4	50
83254213	Character holder NM 5	58.0	8	50
83254212	Character holder NM 7	82.0	12	50
83254211	Character holder NM 9	106.0	16	50
83254210	Character holder NM 24	286.0	46	50

■ Accessories

- LD Steel cable tie see page 873
- LS steel cable ties see page 969

ZT Stainless steel - character holders

■ Benefits

- Holder for up to 42 characters
- Character holder with hole profile

■ Product features

- Shorten character holder at one end only (e.g. with wire cutters), as otherwise the character strips can no longer be inserted.
- After the character strips have been inserted, the edges are pressed together with pliers so that they do not slip out.

■ Approvals (Norm references)



■ Technical data

	Info
	Height approx. 11 mm Screw hole Ø: 3 mm
	Material
	Acid resistant stainless steel SS 2348 (AISI-316)
	Range of temperature
	Max. temperature: +500°C



Part number	Article designation	Length in mm	Number of characters	Pieces / PU
83254101	Character holder ZT	286.0	42	50

LD Steel cable tie

■ Application range

- Profile tie for fastening (width 7 mm) the NM stainless steel character holders

■ Approvals (Norm references)



■ Technical data

	Material
	Stainless steel, acid resistant SS 2348 (AISI 316)
	Range of temperature
	Max. temperature: +500°C



■ Suitable tools

- STEEL GUN HT-338 cable tie pliers see page 971

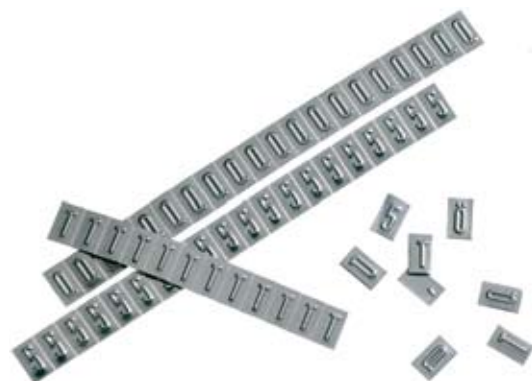
Part number	Article designation	Length x Width mm	Bundling-Ø, mm	Minimum tensile strength in N/mm²	Pieces / PU
83280048	YLD-7-150-B	152.0 x 7.0	48.0	1,120.0	100

Further sizes on request.

■ Accessories

- NM Stainless steel - character holders see page 872

MR Stainless steel - character holders / Stainless steel - character strips Set



MR Stainless steel - character holders

■ Benefits

- The character strips are pushed either into the stainless steel character holders NM or into the character holder ZT (20 pre-stamped single characters per character strip) for assembly

■ Application range

Stainless steel - character strips Set

- Plant engineering

■ Approvals (Norm references)



■ Design

MR Stainless steel - character holders

- MR stainless steel character strips are also available with Cyrillic characters on request.

■ Technical data



General

MR Stainless steel - character holders

Height x width: approx. 9.5 x 6 mm
Character height: approx. 6.8 mm



Material

MR Stainless steel - character holders

Stainless steel, acid resistant SS 2348 (AISI 316)



Range of temperature

MR Stainless steel - character holders

Max. temperature: +500°C

Part number	Article designation	Characters / PU	Strips per PU	PU
Numbers				
83254179	Character strip MR 1	20	10	1
83254180	Character strip MR 2	20	10	1
83254181	Character strip MR 3	20	10	1
83254182	Character strip MR 4	20	10	1
83254183	Character strip MR 5	20	10	1
83254184	Character strip MR 6	20	10	1
83254185	Character strip MR 7	20	10	1
83254186	Character strip MR 8	20	10	1
Letters				
83254150	Character strip MR A	20	10	1
83254151	Character strip MR B	20	10	1
83254152	Character strip MR C	20	10	1
83254153	Character strip MR D	20	10	1
83254154	Character strip MR E	20	10	1
83254155	Character strip MR F	20	10	1
83254156	Character strip MR G	20	10	1
83254157	Character strip MR H	20	10	1
83254158	Character strip MR I	20	10	1
83254159	Character strip MR J	20	10	1
83254160	Character strip MR K	20	10	1
83254161	Character strip MR L	20	10	1
83254162	Character strip MR M	20	10	1
83254163	Character strip MR N	20	10	1
83254164	Character strip MR O	20	10	1
83254165	Character strip MR P	20	10	1
83254166	Character strip MR Q	20	10	1
83254167	Character strip MR R	20	10	1
83254168	Character strip MR S	20	10	1
83254169	Character strip MR T	20	10	1
83254170	Character strip MR U	20	10	1
83254171	Character strip MR V	20	10	1
83254172	Character strip MR W	20	10	1
83254173	Character strip MR X	20	10	1
83254174	Character strip MR Y	20	10	1
83254175	Character strip MR Z	20	10	1
83254177	Character strip MR Å	20	10	1
83254178	Character strip MR Ö	20	10	1
83254201	Character strip MR Ü	20	10	1
Symbols				
83254192	Character strip MR +	20	10	1
83254191	Character strip MR -	20	10	1
83254194	Character strip MR /	20	10	1
83254195	Character strip MR .	20	10	1
83254199	Character strip MR :	20	10	1
83254198	Character strip MR =	20	10	1
83254193	Character strip MR =	20	10	1
83254200	Character strip MR earth	20	10	1
83254196	Character strip MR ,	20	10	1
83254202	Character strip MR (	20	10	1
83254189	Character strip MR blanco	20	10	1
Sets				
83254122	123-Set	20	10	1
83254120	ABC-Set	20	26	1

Stainless steel F.C.C.



Stainless steel F.C.C.

■ Benefits

- Customized stainless steel cable labelling
- Signplates are sorted prior to delivery
- No time-consuming preparation and installation

■ Approvals (Norm references)



■ Design

- Order process

- Customized data are transmitted via ASCII File or Excel File to the responsible Lapp employee by e-mail for the order.

■ Design

- Type A
- For fastening with cable ties (LS) up to a width of 7 mm
- Also available fabricated with cable tie (LxW = 200x4.6)

■ Suitable tools

- STEEL GUN HT-338 cable tie pliers see page 971

■ Technical data



General

Character size: (height and width): 4.5 x 3.25 mm
Marker size: 10/14 mm height



Material

Acid resistant stainless steel SS 2348 (AISI-316)



Range of temperature

Max. temperature: +500°C

Part number	Article designation	Height mm	Design	Number of characters	Pieces / PU
One line embossing / with cable tie brackets					
83251406	Stainless steel type A 10/FSBT (0-15)	10.0	with cable tie	0-15	1
83251456	Stainless steel type A 10/ FSBT (16-25)	10.0	with cable tie	16-25	1
83251402	Stainless steel type A 10 (0-15)	10.0	without cable tie	0-15	1
83251454	Stainless steel type A 10 (16-25)	10.0	without cable tie	16-25	1
One line embossing / screw holes					
83251450	Stainless steel type B 10 (0-15)	10.0	with screw hole	0-15	1
83251478	Stainless steel type B 10 (16-25)	10.0	with screw hole	16-25	1
Two line embossing / with cable tie brackets					
83251426	Stainless steel type A 14/FSBT (0-15)	14.0	with cable tie	0-15	1
83251468	Stainless steel type A 14/ FSBT (16-25)	14.0	with cable tie	16-25	1
83251422	Stainless steel type A 14 (0-15)	14.0	without cable tie	0-15	1
83251466	Stainless steel type A 14 (16-25)	14.0	without cable tie	16-25	1
Two line embossing / screw holes					
83251451	Stainless steel type B 14 (0-15)	14.0	with screw hole	0-15	1
83251479	Stainless steel type B 14 (16-25)	14.0	with screw hole	16-25	1

Further types on request

■ Accessories

- LS steel cable ties see page 969



Engraved markers BMK-FCC - component markers



■ Benefits

- Plates are freely configurable with regard to colour, number of text lines, self adhesive or not, plate size and number of holes.

■ Application range

- Automotive industry
- Components in manufacturing of switch cabinets

■ Approvals (Norm references)



■ Design

- Order process
- Excel file must have the following structure:
- Column A = text for top row
- Column B = text for bottom row
- Column C = number of respective plate

■ Design

- Two coloured, customized engraved plates.

■ Technical data



General

Right / left horizontal holes



Colour delivered

Standard colour: black lettering on white plate



Material

PMMA (1.6 mm)



Range of temperature

-40°C to + 80°C

Part number	Article designation	Self adhesive	Width x height mm	Text height, mm	Number of text rows	Pieces / PU
Self adhesive						
83264000	BMK-FCC 30x12-1 RT	yes	30.0 x 12.0	6.0	1	1
83264001	BMK-FCC 30x12-2 RT	yes	30.0 x 12.0	3.0	2	1
83264002	BMK-FCC 30x12-3 RT	yes	30.0 x 12.0	4.0	3	1
83264003	BMK-FCC 25x25-1 RT	yes	25.0 x 25.0	10.0	1	1
83264005	BMK-FCC 25x25-3 RT	yes	25.0 x 25.0	4.0	3	1
83264006	BMK-FCC 52x17-1 RT	yes	52.0 x 17.0	6.0	1	1
83264009	BMK-FCC 75x25-1 RT	yes	75.0 x 25.0	10.0	1	1
83264010	BMK-FCC 75x25-2 RT	yes	75.0 x 25.0	6.0	2	1
83264011	BMK-FCC 75x25-3 RT	yes	75.0 x 25.0	4.0	3	1
83264012	BMK-FCC 80x30-1 RT	yes	80.0 x 30.0	10.0	1	1
83264013	BMK-FCC 80x30-2 RT	yes	80.0 x 30.0	8.0	2	1
83264014	BMK-FCC 80x30-3 RT	yes	80.0 x 30.0	7.0	3	1
83264015	BMK-FCC 100x30-1 RT	yes	100.0 x 30.0	10.0	1	1
83264018	BMK-FCC 110x40-1 RT	yes	110.0 x 40.0	10.0	1	1
83264019	BMK-FCC 110x40-2 RT	yes	110.0 x 40.0	8.0	2	1
83264020	BMK-FCC 110x40-3 RT	yes	110.0 x 40.0	7.0	3	1
83264022	BMK-FCC 140x43-2 RT	yes	140.0 x 43.0	8.0	2	1
83264025	BMK-FCC 70x30-2 RT	yes	70.0 x 30.0	8.0	2	1
83264026	BMK-FCC 70x30-3 RT	yes	70.0 x 30.0	7.0	3	1
non-adhesive						
83264050	BMK-FCC 30x12-1 R	No	30.0 x 12.0	6.0	1	1
83264053	BMK-FCC 25x25-1 R	No	25.0 x 25.0	10.0	1	1
83264056	BMK-FCC 52x17-1 R	No	52.0 x 17.0	6.0	1	1
83264058	BMK-FCC 52x17-3 R	No	52.0 x 17.0	4.0	3	1
83264062	BMK-FCC 80x30-1 R	No	80.0 x 30.0	10.0	1	1
83264065	BMK-FCC 100x30-1 R	No	100.0 x 30.0	10.0	1	1

New

FLEXIMARK® Software 10.0



FLEXIMARK® Software 10.0



Info

- Marking software for FLEXIMARK® labels
- Download www.lappkabel.de - Service - Download-center - Kennzeichnungssoftware

■ Benefits

- Much easier due to Drag & Drop part number searching connection to the homepage
- Integrated word processing
- Guide that leads to the right label
- Function keys for frequently used commands
- Self-explanatory installation

■ Application range

- Machine and apparatus construction, control technology
- Switch cabinets and equipment wiring
- Automotive industry
- Building Installation

- FLEXIMARK® Software is the marking software that enables you to print all kinds of labels. It is especially suitable for FLEXIMARK® labels, which are already defined in this catalogue. With the FLEXIMARK® Software you can use all Microsoft® Windows options to print your labels: graphics, cliparts, fonts and font sizes. Integrated word processing will give you any desired result for your label text quickly and easily. You will be able to import data, store individual logos and apply bar codes easily.

■ Product features

- System requirements:
20 MB free hard disk space
Printer and driver for Microsoft® Windows 2000 or higher
- Import from other Microsoft® Windows applications or ASCII files (e.g. tables or graphs, logos) possible

- Zoom function from 25 % to 800 %
- Printer: Laser, Thermal Transfer, Matrix

■ Note

- The full version is available for download free of charge with a testperiod of 30 days
- Light version is available for download free of charge

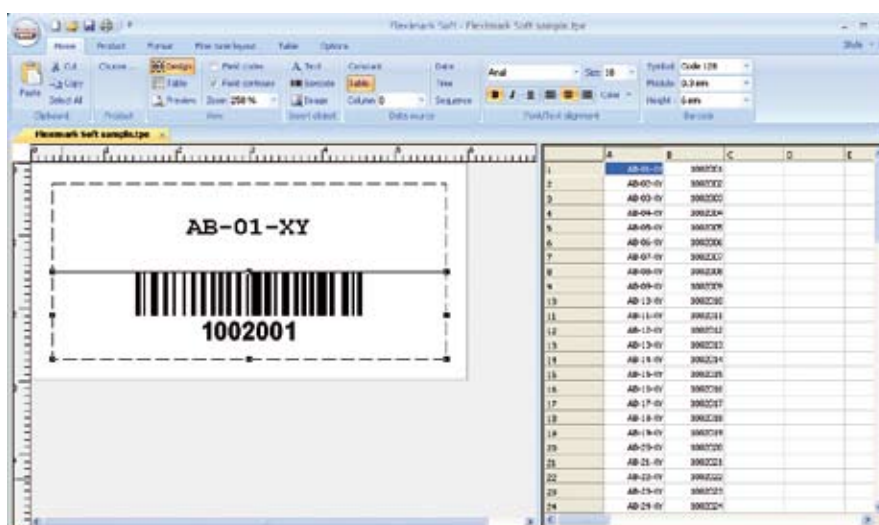
■ Design

- Consecutive numbering, text sorting
- Barcodes: EAN-8, EAN-13, EAN-128, Code-128, Code-39, interleaved 2/5, UPC-A

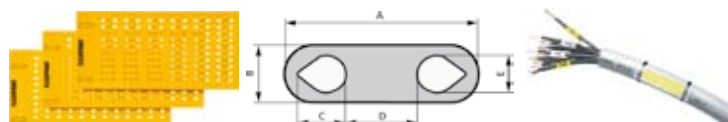
■ Scope of delivery

- CD-ROM
- Operating manual
- Service manual on CD-ROM

Part number	Article designation	Language	
83251080	FLEXIMARK® SOFTWARE 10.0	DE / EN / SE	1



FLEXIPRINT LF Single core marking



FLEXIPRINT LF Single core marking



Info

- Download
www.lappkabel.de - Service - Download-center - Kennzeichnungssoftware

■ Benefits

- FLEXIMARK® Software is the marking software that enables you to print all kinds of labels. It is especially suitable for FLEXIMARK® labels, which are already defined in this catalogue. With the FLEXIMARK® Software you can use all Microsoft® Windows options to print your labels: graphics, cliparts, fonts and font sizes. Integrated word processing will give you any desired result for your label text quickly and easily. You will be able to import data, store individual logos and apply bar codes easily.

■ Application range

- Polyester single core marking for laser printers
- Use of original toner is recommended. Insert sheet in manual paper feed mode.

■ Product features

- Printable on both sides with standard laser printers and the Fleximark® Software (front yellow, rear white)

- Fast and easy assembly
- FLEXIPRINT LF for laser printers

■ Approvals (Norm references)



■ Design

- Flexiprint consists of single marking cards that contain 20-60 perforated markers, depending on the size (F0/F1/F1b/F2/F3)

■ Design

- For cable cross-sections over 16.00 mm², cable ties can be used for installing single markers

■ Suitable cables

- H05V-K page 195
- H07V-K page 197

■ Technical data



Caution

Resistant against oil and water; commonly used chemicals, UV light



Note

Thickness: 0.175 mm



Colour delivered

Front yellow, back white



Material

Halogen-free polyester



Range of temperature

-40°C up to + 125°C

Part number	Article designation	Cable Ø	Cards per PU	Marker / PU	PU
83254420	Flexiprint L-F1	0.75 - 1.5	75	4,500	1
83254460	Flexiprint L-F1B	1.5 - 2.5	75	4,500	1
83254480	Flexiprint L-F1BL	1.5 - 2.5	75	2,250	1
83254500	Flexiprint L-F2	2.5 - 6	75	4,500	1
83254520	Flexiprint L-F3	6 - 16	75	1,500	1

■ Accessories

- FLEXIMARK® Software 10.0 see page 877

Flexilabel LFL

Benefits

- Printing field can be printed with laser printer and using the FLEXIMARK® Software or written with water-proof, smear-proof marker pens MS

Application range

- Simple marking
- Manufacturing of control cabinets and equipment

Approvals (Norm references)



Info

- Sample labels on request

Technical data



General

Resistant against chemicals, UV-light, moisture and some oils



Colour delivered

Standard colour: yellow/ white



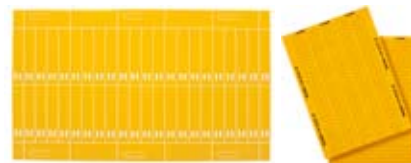
Material

Halogen-free polyester foil, thickness: 0.175 mm



Range of temperature

-40°C up to + 125°C



Note

- Insert sheet in manual paper feed mode

Design

- MINI pre-assembled character holders PTEF/ CAB (from)
- MINI MLM mounting profile
- MINI character holders PTE
- Printable on both sides

Part number	Article designation	Width x height mm	Labels per side	Labels / PU	PU
LFL Flexilabel - MINI					
83254650	LFL-17 P	17.5 x 9.5	352	3,520	1
83254660	LFL-28 P	28.0 x 9.5	224	2,240	1
83254670	LFL-35 P	35.0 x 9.5	150	1,500	1
83254701	LFL-70 P	70.0 x 9.5	84	840	1

Accessories

- FLEXIMARK® Software 10.0 see page 877
- Character holders PTEF/ CAB (D) see page 867
- Character holders PGS - MINI see page 868
- MLM Mounting profile MINI

LFL Cable label



■ Benefits

- Simple marking
- Printing with FLEXIMARK® Software

■ Application range

- For marking cables in switch and control cabinets

■ Product features

- A5 and A4 label sheets for laser printers

■ Approvals (Norm references)



■ Note

- Insert sheet in manual paper feed mode

■ Design

- Cable label attached directly in place with a cable tie
- Printable on both sides
- One (LFL1H) or two-sided (LFL2H) attachment with cable ties (up to 4.5mm in width)

■ Technical data



Colour delivered

Standard colour: yellow / white



Material

Halogen-free polyester foil, thickness: 0.175 mm



Range of temperature

-40°C up to + 125°C

Part number	Article designation	Width x height mm	Labels per side	Labels / PU	PU
83254750	LFL2H Y/W	28.0 x 9.9	40	400	1
83254760	LFL1H Y/W	35.0 x 9.9	40	400	1
83254765	LFL2H Y/W	66.0 x 9.9	56	560	1

■ Accessories

- FLEXIMARK® Software 10.0 see page 877
- TY - FAST® standard cable ties see page 962
- MS Marker pens see page 892



Info

- For checking the print quality of your printer, you can obtain sample labels on request



LCK Wrapping labels



LCK Wrapping labels

Benefits

- Transparent foil is wrapped around the cable and pasted over the printed field, so that the printing is protected against abrasion, moisture, oils and solvents

Application range

- Especially suitable for cable marking and for marking switch cabinets

Product features

- White or yellow labelling field

- Printing field can be printed with laser printer and using the FLEXIMARK® Software or written with water-proof, smear-proof marker pens MS

Approvals (Norm references)



Design

- LCK labels for laser printers
- On DIN-A4 sheets. The use of original toner is recommended. Insert sheet in manual paper feed mode. Best printing results from laser printers are with straight sheet feed without going over rollers and without heat build-up

Technical data



Caution

halogen-free



Colour delivered

White or yellow labelling field



Material

Polyester foil

Thickness: 0.025 mm



Range of temperature

-40°C up to + 125°C

Minimum working temperature: +10°C

Part number	Article designation	Width x length mm	Labelling surface mm	For outer - Ø mm	Labels per side	Labels / PU	PU
LCK labels for laser printers							
83256143	LCK 32 white	25.0 x 35.5	25 x 12	4 - 7	64	640	1
83256142	LCK 32 yellow	25.0 x 35.5	25 x 12	4 - 7	64	640	1
83256145	LCK 35 white	25.0 x 57.0	25 x 19	6 - 12	40	400	1
83256144	LCK 35 yellow	25.0 x 57.0	25 x 19	6 - 12	40	400	1
83256147	LCK 40 white	25.0 x 95.0	25 x 25	8 - 22	24	240	1
83256146	LCK 40 yellow	25.0 x 95.0	25 x 25	8 - 22	24	240	1
83256149	LCK 45 white	25.0 x 142.5	25 x 25	8 - 37	16	160	1
83256148	LCK 45 yellow	25.5 x 142.5	25 x 25	8 - 37	16	160	1
83256160	LCK 48 white	34.0 x 95.0	34 x 25	8 - 22	18	180	1
83256161	LCK 48 yellow	34.0 x 95.0	34 x 25	8 - 22	18	180	1
83256151	LCK 60 white	50.0 x 57.0	50 x 19	6 - 12	20	200	1
83256150	LCK 60 yellow	50.0 x 57.0	50 x 19	6 - 12	20	200	1
83256153	LCK 65 white	50.0 x 95.0	50 x 25	8 - 22	12	120	1
83256152	LCK 65 yellow	50.0 x 95.0	50 x 25	8 - 22	12	120	1
83256155	LCK 70 white	50.0 x 142.5	50 x 25	8 - 37	8	80	1
83256154	LCK 70 yellow	50.0 x 142.5	50 x 25	8 - 37	8	80	1

Accessories

- FLEXIMARK® Software 10.0 see page 877

FLEXIMARK® Heat shrinkable tubing



■ Application range

- Many areas of application can be identified using the printable heat-shrink protective conduit. Especially for repair purposes

■ Approvals (Norm references)



■ Technical data



Caution

Shrinking ratio 3:1



Note

Acceptance UL 224



Colour delivered

black, yellow and white



Material

Polyolefine



Range of temperature

-55°C up to +135°C

Part number	Article designation	Colour	Content (m)	PU
83251670	FLEXIMARK® shrink tube 3 BK	black	30	1
83251671	FLEXIMARK® shrink tube 6 BK	black	25	1
83251672	FLEXIMARK® shrink tube 9 BK	black	20	1
83251673	FLEXIMARK® shrink tube 12 BK	black	20	1
83251674	FLEXIMARK® shrink tube 18 BK	black	20	1
83251680	FLEXIMARK® shrink tube 3 YE	yellow	30	1
83251681	FLEXIMARK® shrink tube 6 YE	yellow	25	1
83251682	FLEXIMARK® shrink tube 9 YE	yellow	20	1
83251683	FLEXIMARK® shrink tube 12 YE	yellow	20	1
83251684	FLEXIMARK® shrink tube 18 YE	yellow	20	1
83251690	FLEXIMARK® shrink tube 3 WH	white	30	1
83251691	FLEXIMARK® shrink tube 6 WH	white	25	1
83251692	FLEXIMARK® shrink tube 9 WH	white	20	1
83251693	FLEXIMARK® shrink tube 12 WH	white	20	1
83251694	FLEXIMARK® shrink tube 18 WH	white	20	1

■ Accessories

- FLEXIMARK® Software 10.0 see page 877
- FLEXIMARK® Thermoprint A4+M/300 see page 887

LA Labels



■ Benefits

- Printing with FLEXIMARK® Software

■ Application range

- Self-adhesive labels made from polyester foil for laser printers
- Cable and component marking system

■ Approvals (Norm references)



■ Note

- Best printing results from laser printers are with straight sheet feed without going over rollers and without heat build-up
- Insert sheet in manual paper feed mode
- Use of original toner is recommended

■ Design

- Rounded corners



Info

- Sample labels on request

■ Technical data



Note

Adhesive strength: 15 N/25 mm



Colour delivered

Yellow



Material

Halogen-free polyester film
Thickness: 0.05 mm



Range of temperature

-40°C up to + 125°C
Working temperature: min. +10 °C

Part number	Article designation	Width x height mm	Labels per side	Labels / PU	PU
83256096	LA-30	30.8 x 12.7	110	1,110	1
83256097	LA-50	60.0 x 30.0	24	240	1

■ Accessories

- FLEXIMARK® Software 10.0 see page 877

LB Labels

Benefits

- Printing with FLEXIMARK® Software

Application range

- Cable and component marking system
- Self-adhesive labels made from polyester foil for laser printers

Approvals (Norm references)



Note

- Insert sheet in manual paper feed mode
- Best printing results from laser printers are with straight sheet feed without going over rollers and without heat build-up
- Use of original toner is recommended

Design

- Rectangular shape



Info

- Sample labels on request

Technical data



Note
Adhesive strength: 15 N/25 mm



Colour delivered
Yellow



Material
Halogen-free polyester film
Thickness: 0.05 mm



Range of temperature
-40°C up to + 125°C
Working temperature: min. +10 °C



Part number	Article designation	Width x height mm	Labels per side	Labels / PU	PU
83256091	LB-10 Y	7.0 x 8.0	780	7,800	1
83256156	LB-10 W	7.0 x 8.0	780	7,800	1
83256092	LB-20 Y	11.0 x 8.0	480	4,800	1
83256157	LB-20 W	11.0 x 8.0	480	4,800	1
83256090	LB-30 Y	12.0 x 6.0	600	6,000	1
83256158	LB-30 W	12.0 x 6.0	600	6,000	1
83256093	LB-40 Y	16.0 x 8.0	330	3,300	1
83256159	LB-40 W	16.0 x 8.0	330	3,300	1

Accessories

- FLEXIMARK® Software 10.0 see page 877

LC Labels

Benefits

- Printing with FLEXIMARK® Software

Application range

- Self-adhesive labels made from polyester foil for laser printers
- Cable and component marking system

Approvals (Norm references)



Note

- Best printing results from laser printers are with straight sheet feed without going over rollers and without heat build-up

Design

- Rectangular shape



Info

- Sample labels on request

Technical data



Note
Adhesive strength: 15 N/25 mm



Colour delivered
White



Material
Halogen-free polyester film
Thickness: 0.05 mm



Range of temperature
-40°C up to + 125°C
Working temperature: min. +10 °C



Part number	Article designation	Width x height mm	Labels per side	Labels / PU	PU
83256102	LC-10 W	15.2 x 6.4	504	5,040	1
83256101	LC-10 Y	15.2 x 6.4	504	5,040	1
83256104	LC-20 W	17.8 x 9.5	297	2,970	1
83256103	LC-20 Y	17.8 x 9.5	297	2,970	1
83256106	LC-30 W	20.3 x 8.5	297	2,970	1
83256105	LC-30 Y	20.3 x 8.5	297	2,970	1
83256108	LC-40 W	25.4 x 12.7	147	1,470	1
83256107	LC-40 Y	25.4 x 12.7	147	1,470	1
83256110	LC-50 W	26.0 x 10.0	182	1,820	1
83256109	LC-50 Y	26.0 x 10.0	182	1,820	1
83256112	LC-60 W	48.3 x 9.5	108	1,080	1
83256111	LC-60 Y	48.3 x 9.5	108	1,080	1
83256114	LC-70 W	55.9 x 22.0	36	360	1
83256113	LC-70 Y	55.9 x 22.0	36	360	1

Accessories

- FLEXIMARK® Software 10.0 see page 877

SK Self-adhesive labels



■ Benefits

- FKLS marking sheets made from white cardboard can be easily replaced.
- Easy operation

■ Application range

- SK quick adhesive labels are suitable for many purposes. The FKLS marking sheets made from white cardboard can be easily replaced. Control panels, switching boards, control devices, counter panels and similar are clearly marked with these labels. The protective foil is simply removed from the back and the label pressed onto the dry, clean, grease-free surface.

■ Approvals (Norm references)



■ Scope of delivery

- Without marking labels

■ Technical data



Material

Impact proof polystyrene



Range of temperature

-30°C up to +70°C

Part number	Article designation	Width x height mm	Suitable marking labels	Pieces / PU
61711260	SK 1324	24.0 x 13.0	FKLS 1324	100
61711280	SK 1337	37.0 x 13.0	FKLS 1337	100
61711300	SK 1852	52.0 x 18.0	FKLS 16 / FB 110	100

■ Accessories

- FKLS Marking labels see page 885

KKSB Marking labels



KKSB Marking labels

■ Benefits

- KKSB labels are installed with cable ties, punched tape or screws.
- Labelling options: They can be inscribed by hand, typewriter or printer.

■ Design

- KKSB labels consist of two parts: the lower part (white) for securing the label and the cover (transparent).
- The white cardboard FKLS labels are perforated and easy to replace.

■ Approvals (Norm references)



■ Scope of delivery

- With marking labels
- Without cable ties, screws

■ Technical data



General

Fastening: cable ties up to 11 mm width, screw holes 3.5 mm



Material

Polystyrene

Part number	Article designation	Width x height mm	Suitable marking labels	Pieces / PU
61712660	KKSB 10	52.0 x 12.0	FKLS 10 / FB 112	100
61712680	KKSB 16	52.0 x 18.0	FKLS 16 / FB 110	100

■ Accessories

- TY - FAST® standard cable ties see page 962
- MS Marker pens see page 892
- FKLS Marking labels see page 885

FKLS Marking labels

Product features

- Labelling: Manual, typewriter, laser/matrix/ink-jet printer

Approvals (Norm references)



Technical data



Colour delivered
White



Material
Perforated sheets, approx. DIN A5



Part number	Article designation	Width x height mm	Suitable labels	Labels / PU	PU
61721810	FKLS 1337	35.0 x 10.5	SK 1337	72	1
61721820	FKLS 1324	23.0 x 10.5	SK 1324	108	1
61721830	FKLS 10 / FB 112	48.0 x 9.5	KKS 10, KKS 10	36	1
61721840	FKLS 16 / FB 110	48.0 x 16.0	SK 1852, KKS 16, KKS 16	32	1

Accessories

- SK Self-adhesive labels see page 884
- KKS Marking labels see page 884

ETB Marking labels

Benefits

- ETB marking sign has various areas of use in addition to binding and bundling.
- The marking sign can be opened and closed easily to replace the label.

Application range

- Areas of use include marking cables, tubes, items, or as advertising media, baggage labels and any other kind of labelling.

Product features

- The label is folded in such a way that it can be reduced to a quarter of its size and thus matches the visible part of the marking area in the label holder.

Approvals (Norm references)



Design

- Perforated sheets, approx. DIN A5
- Cable tie dimensions: 200 x 5 mm

Scope of delivery

- With marking labels

Technical data



Material
Polypropylene (PP)
UV resistant



Range of temperature
-30°C up to +110°C



Part number	Article designation	Width x height mm	Labels per side	Pieces / PU
61742810	ETB holder transparent	60.0 x 33.0		50
61742900	ETB labels	53.0 x 18.0	14	1

KMK Marking labels



KMK Marking labels

■ Benefits

- Printed insert strips are placed in the label holder and closed with a dust-proof cap.

■ Application range

- The KMK marking signs are suitable for both marking and bundling several conductors and cables in interiors.

■ Product features

- Labelling: Manual, typewriter, laser/matrix/ink-jet printer

■ Approvals (Norm references)



- Smudge-proof: DIN 30646:1993-11, DIN VDE 0611-1:1977-11

■ Design

- Strap width of KMK: 5 mm
- Bundling area of KMK: 10-25 mm
- Strap width of KMK3: 10 mm
- Bundling area of KMK3: 16-31 mm
- Fastening loops of KMK2/KMK4: 5 mm

■ Scope of delivery

- Please order labels separately

■ Technical data



Colour delivered
transparent



Material
Label holder: Polyethylen, halogenfree
Labels: Cardboard, A4 perforated, halogen-free



Range of temperature
-40°C up to +80°C

Part number	Article designation	Width x height mm	Equipment per piece	Suitable for:	Pieces / PU
61742820	KMK label holder	29.0 x 8.0	with strap	ES/LP-BW-GB	100
61742822	KMK 2 label holder	29.0 x 8.0	without strap	ES/LP-BW-GB	100
61742824	KMK 3 label holder	40.0 x 17.0	with strap	ES/KMK 3 GB	50
61742826	KMK 4 label holder	40.0 x 17.0	without strap	ES/KMK 3 GB	50
61742922	ES/LP-BW-GB labels	29.0 x 8.0	1500 labels	KMK, KMK 2	10
61742926	ES/KMK 3 GB labels	40.0 x 17.0	500 labels	KMK 3, KMK 4	10

New

FLEXIMARK® Thermoprint A4+M/300



Info

- Precise printing/high reliability
- quick and easy handling



FLEXIMARK® Thermoprint A4+M/300

■ Benefits

- The FLEXIMARK® Thermoprint A4+M/300 is built for uncompromising permanent operation and for high printing volumes. The Thermal transfer print is used for several applications. Every specific customer demand can be implemented due to the large periphery and software.
- Different designs, in many languages, in black and white, in color, with or without barcode – each label is printed by the label marking printer as desired, in the right quantity and without any mistake
- Ideal for industrial marking. The thermal transfer printing method increases the smudge and scratch resistance of the printed surface and provides increased resistance to oils and chemicals as well. For printing many different labels such as self-adhesive labels for equipment labelling (TA), cable markers (TCK) and shrink tubes.

■ Application range

- Printing on very small and thick endless-material is problem-free possible (width from 10 up to 110mm, thickness up to 1,2mm) e.g. heat shrink tube
- Difficult printable surfaces with reduced print speed from 30 mm/sec.
- Packing robot, manual packing, in the production hall or many other applications

■ Product features

- With 300 dpi print resolution
- Centred material position
– the material is inserted centre aligned
- Easily connectable due to USB-interface

• Thermotransfer

For printing on standard paper, card board or synthetic materials PET/PE/PP/PVC/PU/acrylate/PI. This print method requires wax, resin or wax/resin ribbons.

Thermodirekt

Printer can be operated in thermal direct printing without ribbon.

■ Approvals (Norm references)



■ Note

- Further thermal transfer printing systems / printer available on request
- New technologie: wiithin this system a RFID option is available for reading and rewriting of Smart labels before printing (further information on request)

■ Design

- Operating mode: Stand-alone operation, PC-application or network - the printer is always up to the mark.
- Easy maintenance like cleaning the label sensor, changing the print head and print roller can be done easily by yourselves.

■ Scope of delivery

- FLEXIMARK® Thermoprint A4+M/300 and operation manual
- Marking Software
FLEXIMARK® Software 10.0
- Windows® driver
- Service manual on CD-ROM
- Power supply &
USB cable (length 1.8m)

■ Technical data

Dimensions

HxWxD: 274x242x446 mm

Label rolls

Material thickness: 0,055-1,2 mm

Carrier width: 10-120 mm

Max. core diamter Ø: 38,0-100,0 mm

Ribbons

L=variabel up to 500m

Speed

up to 250,0 mm/s

Weight

9.0 kg

Material

Labels or endless material on coil



Part number	Article designation	PU
83259602	FLEXIMARK® Thermoprint A4+M/300	1

■ Accessories

- FLEXIMARK® Software 10.0 see page 877
- Accessories Transfer Printer A4+M/300 see page 888
- FLEXIPRINT TF Single core marking see page 888
- FLEXILABEL TFL Cable marking see page 889
- TA Labels Cable marking see page 889
- TCK Labels Cable marking see page 890

New

Accessories Transfer Printer A4+M/300



■ Benefits

- **Perforations- and Cutter for labels**
- The perforation cutter also permits the perforation of the material in order to separate it manually.
- **Ribbons**
- Suitable for each width and surface of labels.

■ Approvals (Norm references)



■ Note

- Further variations on request



Info

- **Cutting , perforating or individual colours selection - no problem!**

■ Technical data



Dimensions

Roll diameter up to 80 mm



Note

Perforation cutter:

Material width up to 120 mm

Material thickness 0,05 - 1,2 mm

Gap height up to 4,5 mm



Material

Resin

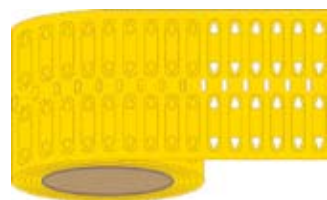
Part number	Article designation	Colour	Width mm x length m	Suitable labels	For printers	Material	PU
Perforations- and Cutter for labels							
83259603	Perforations- and Cutter for labels	black/ metal			A4+M/300		1
Ribbons							
83259604	Ribbon R71	black	55.0 x 360.0	Thermal transfer labels and shrinking tubes	A4+M/300	resin	1
83259609	Ribbon R71	black	110.0 x 360.0	Thermal transfer labels and shrinking tubes	A4+M/300	resin	1

Further colours, sizes and materials available on request

■ Accessories

- FLEXIMARK® Thermoprint A4+M/300 see page 887

FLEXIPRINT TF Single core marking



■ Benefits

- Unique system for rational and durable marking of wires and thin cables (e.g. fibre-optic cables) in control cabinets.

■ Approvals (Norm references)



■ Note

- Following colours available on request: white, red, blue, green

■ Technical data



Colour delivered

Yellow



Material

Halogen-free polyester



Range of temperature

-40°C up to + 125°C

Part number	Article designation	for mm²	Labels per roll	PU / roll
83254377	TF0	0.25 - 0.75	2,000	1
83254378	TF1	0.75 - 1.5	2,000	1
83254374	TF1B	1.5 - 2.5	2,000	1
83254375	TF2	2.5 - 6	2,000	1
83254376	TF3	6 - 16	1,000	1

■ Accessories

- FLEXIMARK® Software 10.0 see page 877
- FLEXIMARK® Thermoprint A4+M/300 see page 887

FLEXILABEL TFL Cable marking

Benefits

- Simple marking

Application range

- TFL labels are used together with the transparent character holders (PTE, CAB, PTFE). The result is a cable label that is fixed to the cable with cable ties.

Approvals (Norm references)



Technical data

	Colour delivered Yellow
	Material Halogen-free polyester
	Range of temperature -40°C up to + 125°C



Part number	Article designation	Colour	Width x length mm	Labels per roll	PU / roll
83254605	TFL9,5-28	yellow/ white	28.0 x 9.5	1,000	1

Accessories

- FLEXIMARK® Software 10.0 see page 877
- FLEXIMARK® Thermoprint A4+M/300 see page 887

TA Labels Cable marking

Benefits

- Ideal for industrial marking. The thermal transfer printing method increases the smudge and scratch resistance of the printed surface and provides increased resistance to oils and chemicals as well. For printing many different labels such as self-adhesive labels for equipment labelling (TA), cable markers (TCK) and shrink tubes.

Application range

- Components in manufacturing of switch cabinets
- Information signs ...

Approvals (Norm references)

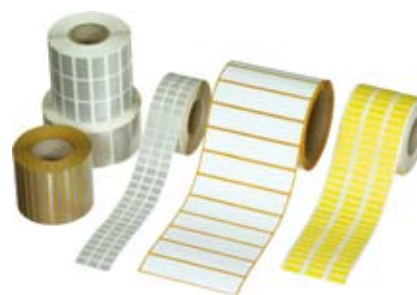


Info

- Sample labels on request

Technical data

	Adhesive Acrylic-based Permanent adhesion Bonding capacity: 15N/ mm
	Material Polyester (0.1 mm)
	Range of temperature -40°C up to +150°C Processing: min. +10°C



Part number	Article designation	Colour	Width x height mm	Core Ø	Material	Labels per roll	Labels per roll	PU
Width: 15.6 mm								
83259610	TA 15,6x6-3 W	white	15.6 x 6.0	38.0	MT302	3	10,000	1
83259611	TA 15,6x6-3 Y	yellow	15.6 x 6.0	38.0	MT300	3	10,000	1
Width: 18 mm								
83259616	TA 18x4,6-7 Y	yellow	18.0 x 4.6	38.0	MT300	7	50,000	1
83259617	TA 18x4,6-7 W	white	18.0 x 4.6	38.0	MT302	7	50,000	1
83259622	TA 18x6,5-3 Y	yellow	18.0 x 6.5	38.0	MT300	3	10,000	1
83259623	TA 18x6,5-3 W	white	18.0 x 6.5	38.0	MT302	3	10,000	1
83259628	TA 18x9-3 Y	yellow	18.0 x 9.0	38.0	MT300	3	10,000	1
83259629	TA 18x9-3 W	white	18.0 x 9.0	38.0	MT302	3	10,000	1
Width: 20 mm								
83259634	TA 20x8-3 Y	yellow	20.0 x 8.0	38.0	MT301	3	10,000	1
83259635	TA 20x8-3 W	white	20.0 x 8.0	38.0	MT302	3	10,000	1
Width: 25.4 mm								
83259640	TA 25,4x12,7-1 Y	yellow	25.4 x 12.7	38.0	MT301	1	2,000	1
83259641	TA 25,4x12,7-3 Y	yellow	25.4 x 12.7	38.0	MT300	3	10,000	1
83259642	TA 25,4x12,7-1 W	white	25.4 x 12.7	38.0	MT302	1	2,000	1
83259643	TA 25,4x12,7-3 W	white	25.4 x 12.7	38.0	MT302	3	10,000	1
Width: 26 mm								
83259652	TA 26x10-1 Y	yellow	26.0 x 10.0	38.0	MT300	1	2,000	1
83259653	TA 26x10-3 Y	yellow	26.0 x 10.0	38.0	MT300	3	10,000	1
83259654	TA 26x10-1 W	white	26.0 x 10.0	38.0	MT302	1	2,000	1
83259655	TA 26x10-3 W	white	26.0 x 10.0	38.0	MT302	3	10,000	1
83259664	TA 26,5x17,5-3 Y	yellow	26.5 x 17.5	38.0	MT300	3	5,000	1
83259665	TA 26,5x17,5-3 W	white	26.5 x 17.5	38.0	MT302	3	5,000	1
Width: 30 mm								
83259670	TA 30x20-1 Y	yellow	30.0 x 20.0	38.0	MT300	1	2,000	1
83259671	TA 30x20-3 Y	yellow	30.0 x 20.0	38.0	MT300	3	6,000	1
83259672	TA 30x20-1 W	white	30.0 x 20.0	38.0	MT302	1	2,000	1
83259673	TA 30x20-3 W	white	30.0 x 20.0	38.0	MT302	3	6,000	1
Width: 32 mm								
83259682	TA 32x9,5-1 Y	yellow	32.0 x 9.5	38.0	MT300	1	2,000	1
83259683	TA 32x9,5-3 Y	yellow	32.0 x 9.5	38.0	MT300	3	10,000	1
83259684	TA 32x9,5-1 W	white	32.0 x 9.5	38.0	MT302	1	2,000	1
83259685	TA 32x9,5-3 W	white	32.0 x 9.5	38.0	MT302	3	10,000	1

Part number	Article designation	Colour	Width x height mm	Core Ø	Material	Labels per roll	Labels per roll	PU
Width: 38 mm								
83259694	TA 38x19-1 Y	yellow	38.0 x 19.0	38.0	MT300	1	20,000	1
83259695	TA 38x19-1 W	white	38.0 x 19.0	38.0	MT302	1	2,000	1
Width: 45 mm								
83259700	TA 45x23-1 Y	yellow	45.0 x 23.0	38.0	MT300	1	2,000	1
83259701	TA 45x23-1 W	white	45.0 x 23.0	38.0	MT302	1	2,000	1
Width: 47 mm								
83259706	TA 47x28-1 Y	yellow	47.0 x 28.0	38.0	MT300	1	1,500	1
83259707	TA 47x28-1 W	white	47.0 x 28.0	38.0	MT302	1	1,500	1
Width: 50 mm								
83259712	TA 50x23-1 Y	yellow	50.0 x 23.0	38.0	MT300	1	2,000	1
83259713	TA 50x23-1 W	white	50.0 x 23.0	38.0	MT302	1	2,000	1
Width: 60 mm								
83259718	TA 60x36-1 Y	yellow	60.0 x 36.0	38.0	MT300	1	1,000	1
83259719	TA 60x36-1 W	white	60.0 x 36.0	38.0	MT302	1	1,000	1
83259725	TA 65x35-1 W	white	65.0 x 35.0	38.0	MT302	1	1,000	1
83259730	TA 65x53-1 Y	yellow	65.0 x 53.0	38.0	MT300	1	750	1
83259731	TA 65x53-1 W	white	65.0 x 53.0	38.0	MT302	1	750	1
Width: 70 mm								
83259736	TA 70x48-1 Y	yellow	70.0 x 48.0	38.0	MT300	1	1,000	1
83259737	TA 70x48-1 W	white	70.0 x 48.0	38.0	MT302	1	1,000	1
Width: 76 mm								
83259742	TA 76,2x22,9-1 Y	yellow	76.2 x 22.9	38.0	MT300	1	2,000	1
83259743	TA 76,2x22,9-1 W	white	76.2 x 22.9	38.0	MT302	1	2,000	1
Width: 89 mm								
83259748	TA 89x82-1 Y	yellow	89.0 x 82.0	38.0	MT300	1	500	1
83259749	TA 89x82-1 W	white	89.0 x 82.0	38.0	MT302	1	500	1
Width: 101.6 mm								
83259755	TA 101,6x23-1 Y	yellow	101.6 x 23.0	38.0	MT300	1	2,000	1
83259756	TA 101,6x23-1 W	white	101.6 x 23.0	38.0	MT302	1	2,000	1
83259763	TA 101,6x36-1 Y	yellow	101.6 x 36.0	38.0	MT300	1	1,000	1
83259764	TA 101,6x36-1 W	white	101.6 x 36.0	38.0	MT302	1	1,000	1
83259769	TA 101,6x48-1 Y	yellow	101.6 x 48.0	38.0	MT300	1	1,000	1
83259770	TA 101,6x48-1 W	white	101.6 x 48.0	38.0	MT302	1	1,000	1
83259775	TA 101,6x74-1 Y	yellow	101.6 x 74.0	38.0	MT300	1	500	1
83259776	TA 101,6x74-1 W	white	101.6 x 74.0	38.0	MT302	1	500	1

Accessories

- FLEXIMARK® Software 10.0 see page 877
- FLEXIMARK® Thermoprint A4+M/300 see page 887

TCK Labels Cable marking



Benefits

- Unique system for rational and durable marking of wires and thin cables (e.g. fibre-optic cables) in control cabinets.

Product features

- White or yellow printing field on transparent laminated adhesive tape

Approvals (Norm references)



Technical data

Adhesive

Acrylic-based
Permanent adhesion
Bonding capacity: 15N/ mm



Material

Polyester film (0.05 mm)



Range of temperature

-40°C up to +125°C
Processing: min. +10°C

Part number	Article designation	Colour	Width x length mm	Printable surface (WxH), mm	for Ø, mm	Core Ø, mm	Material	Labels per row	Labels per roll	PU
83259846	TCK 20 Y	yellow	17.8 x 33.9	16 x 13	4.1 - 6.7	38	MT310	3	3,000	1
83259847	TCK 20 W	white	17.8 x 33.9	16 x 13	4.1 - 6.7	38	MT310	3	3,000	1
83259848	TCK 25 Y	yellow	23.0 x 55.0	21 x 6	1.9 - 15.6	38	MT310	3	2,400	1
83259849	TCK 25 W	white	23.0 x 55.0	21 x 6	1.9 - 15.6	38	MT310	3	2,400	1
83259851	TCK 30 Y	yellow	25.0 x 35.0	25 x 14	4.5 - 6.7	38	MT310	3	4,500	1
83259850	TCK 30 W	white	25.0 x 35.0	25 x 14	4.5 - 6.7	38	MT310	3	4,500	1
83259861	TCK 35 Y	yellow	25.0 x 76.0	23 x 19	6.1 - 18.2	38	MT310	3	1,800	1
83259860	TCK 35 W	white	25.0 x 76.0	23 x 19	6.1 - 18.2	38	MT310	3	1,800	1
83259871	TCK 40 Y	yellow	25.0 x 140.0	24 x 25	8.0 - 36.6	38	MT310	3	1,050	1
83259870	TCK 40 W	white	25.0 x 140.0	24 x 25	8.0 - 36.6	38	MT310	3	1,050	1
83259872	TCK 48 Y	yellow	35.6 x 93.0	34 x 25	8.0 - 21.7	38	MT310	3	1,500	1
83259873	TCK 48 W	white	35.6 x 93.0	34 x 25	8.0 - 21.7	38	MT310	3	1,500	1

Accessories

- FLEXIMARK® Software 10.0 see page 877
- FLEXIMARK® Thermoprint A4+M/300 see page 887

Basic Tie Ident BTI-I Cable tie



Basic Tie Ident BTI-II Cable tie



Basic Tie Ident BTI-III Cable tie



■ Application range

Basic Tie Ident BTI-I Cable tie

- Cable tie with marking field for easy and manual marking of e.g. cable bundle

Basic Tie Ident BTI-II Cable tie

- Cable tie with marking field for easy and manual marking of e.g. cable bundle

■ Approvals (Norm references)



■ Note

Basic Tie Ident BTI-I Cable tie

- Suitable labels
- Laser printer: LB 40 (16x8)

Basic Tie Ident BTI-II Cable tie

- Suitable labels
- LC 30 (20.3x8.5) LB 40 (16x8)
- TA18x6,5 / TA 20x8

Basic Tie Ident BTI-III Cable tie

- Suitable labels
- TA 26x10
- LC 50 (26x10)

■ Technical data



Material

Basic Tie Ident BTI-I Cable tie

Polyamide 6.6 - halogen-free



Range of temperature

Basic Tie Ident BTI-I Cable tie

Permanent: -40°C up to + 85°C

Processing: -10°C up to + 60°C

Temporary: +110°C

■ Suitable tools

Basic Tie Ident BTI-I Cable tie

- TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers see page 970

Part number	Article designation	Length x Width mm	Labelling surface mm	Bundling-Ø, mm	Minimum tensile strength in N/mm²	Pieces / PU
61831072	BTI-I 52100-M	100.0x2,5	25,4x8	20.0	81.6	100
61831073	BTI-I 52200-M	200.0x2,5	25,4x8	50.0	81.6	100
61831074	BTI-II 52110-M	110.0x2,5	20,4x9,1	20.0	81.6	100
61831075	BTI-II 52210-M	210.0x2,5	20,4x9,1	52.0	81.6	100
61831076	BTI-III 52190-M	190.0x4,8	13x28	48.0	22.0	100
61831077	BTI-III 52270-M	270.0x4,8	13x28	68.0	22.0	100

■ Accessories

Basic Tie Ident BTI-I Cable tie

- MS Marker pens see page 892

Basic Tie Ident BTI-II Cable tie

- MS Marker pens see page 892

Simple marking

Cable markers and pens

WM BW Blanc cable marker



■ Benefits

- When the marker is applied on the cable, the transparent foil covers the writing area, thus protecting it against abrasion, humidity, oil and light solvents.

■ Application range

- Wrapping label with protective foil
- The designations can be written with a pencil, a ballpoint, special pen, or other marker on the white writing area.

■ Technical data



Note

Protection against: abrasion, humidity, oil, light solvents



Material

Vinyl strips, silicone-treated lining halogen-free



Range of temperature

-35°C up to +70°C

Part number	Article designation	Labelling surface mm	Number of markers per brochure	Pieces / PU
61726150	WM brochure BW 3	25 x 25	30	1
61726160	WM brochure BW 5	25 x 20	50	1
61726170	WM brochure BW 12	12 x 15	200	1
61726180	WM brochure BW 14	6 x 15	400	1
61726190	WM brochure BW 34	18 x 14	140	1

■ Accessories

- MS Marker pens see page 892

Marking Packs



■ Benefits

- Comprehensive solution for anyone requiring an accurate and permanent marking system for electrical installations. The yellow self-adhesive markers are clearly visible.

■ Product features

- Resistant against: oils, alcohol

■ Approvals (Norm references)



■ Note

- ALPHA PACK
- Complete alphabet A-Z

■ Design

- SYMBOL PACK
- Marker size: 14 x 14:
- NUMBER PACK
- Number combination 0-9

■ Technical data



Colour delivered

Yellow



Material

Acrylic, halogen-free



Range of temperature

-5°C up to +80°C

Part number	Article designation	Marker size in mm	Labelling	Number of markers per brochure	Pieces / PU
61804100	SYMBOL-PACK brochure	14 x 14	see item text	480	1
61804110	SYMBOL-PACK brochure	19 x 9	see item text	540	1
61804120	ALPHA-PACK brochure	9 x 13	A - Z	810	1
61804140	ALPHA-PACK brochure	14 x 19	A - Z	360	1
61804150	NUMERO-PACK brochure	14 x 19	0 - 9	360	1

MS Marker pens



■ Benefits

- For individual, durable marking of blank MINI/ MAXI character and text strips and labels. The marking is water-, smudge- and weather-proof.

Part number	Article designation	Colour	Pieces / PU
61784650	MS-S marker pen	black	10
61784660	MS-R marker pen	red	10
61784670	MS-B marker pen	blue	10

■ Accessories

- Basic Tie Ident BTI-I Cable tie see page 891
- ETB Marking labels see page 885
- KMK Marking labels see page 886

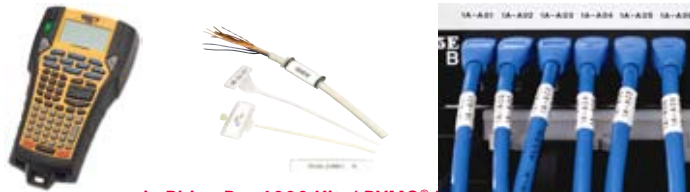
Technical data	Rhino Pro 6000 Kit Industrial Printer	LM 260 P	LM 210 D
Bandwidth in mm	6, 9, 12, 19	6, 9, 12	6, 9, 12
Maximum number of printed lines	4	2	2
LC-Display, measurements (mm)	56.2 x 17	56.2 x 14	37 x 10
Number of lines in the display	2	1	1
Number of characters in the display	2 x 15	15	8.5
Logos/Graphics	Yes	No	No
Number of font heights	4	3	2
Keyboard	RACE (similar SMS)	RACE (similar SMS)	RACE (similar SMS)
Language selection	Yes	Yes	Yes
Label type			
D1 Standard	Yes	Yes	Yes
D1 Industrial (ID1)	Yes	Yes	Yes
Label Layouts			
(e.g. vertical, horizontal, various cable- and datacom labels...)	10	2	2
Label storage			
Memory card	Yes	No	No
Last label	Yes	Yes	Yes
More labels	8	18	No
Font styles			
Normal	Yes	Yes	Yes
Narrow	No	Yes	Yes
Bold (wide)	Yes	Yes	Yes
Vertical	Yes	Yes	Yes
Outline	Yes	Yes	Yes
Shaded	No	No	No
Cursive	Yes	Yes	Yes
Mirrored	Yes	Yes	Yes
Effects			
Number of frames	2	5	5
Underline	Yes	Yes	Yes
Background shade	Yes	Yes	Yes
Background sample	No	No	No
Text background	No	No	No
Functions			
Adjustable label length	Yes	Yes	Yes
Several copies	Yes	Yes	Yes
Continuous numbering	Yes	Yes	Yes
Bar codes	Yes	No	No
Print preview	No	Yes	Yes
Automated label cutter	No	No	No
Various formats simultaneously	Yes	Yes	No
PC connection	Yes	No	No
Power supply			
Number/type batteries	Li-Ion accu	6 X AA	6 X AA
Power supply adapter Type	9 V	9 V	9 V
Measurements & weights			
Width	114	111	170
Length	70	53	120
Height	212	187	54
Weight (g)	890	800	600

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New

DYMO® Industrie Rhino Pro 6000 Kit / DYMO® Rhino Pro 5200

The mobile label printer for the industrial industry



DYMO® Industrie Rhino Pro 6000 Kit / DYMO® Rhino Pro 5200



Info

- Including RHINO CONNECT Software

■ Benefits

- The new industrial printers simplify labelling of components for installation technicians and tradesmen in the field of electrical engineering and Datacom.

■ Application range

- Labelling of cables and wires
- Labelling of terminal blocks
- Labelling of modules and components
- Labelling of patch panels and protective sockets

■ Product features

- New high-performance labels ID1 with a strong adhesive assure durable, smudge proof and scratch proof lettering. The flexible NYLON- or VINYL straps are especially well-suited for uneven surfaces and cable marking, the permanent POLYESTER straps for reliable marking indoors or outdoors. Heat shrink tubing cartridges are ideal for cable marking.
- With direct access to the various label layouts such as a cable, patch panel and component designation.

■ Design

- **DYMO® Rhino PRO 5200:**
without PC interface
big display for several labels
- **DYMO® Rhino Pro 6000 Kit**
With PC interface and software. For instance, E-Plan data can be stored on the memory card and printed on site.

■ Technical data



General

Power supply pack and USB cable
Short user manual and registration card



On request

Hard case robust
Two D1 tapes incl.
- Nylon tape BK/WH 24mm
- Vinyl tape BK/WH 9 mm



Note

RHINO 6000 printer
RHINO CONNECT Software



Colour delivered

black, yellow and white



Material

Due to the fact of the thermal transfer printing technology the labels are really durable and indelible.
Li-Ion storage battery

Part number	Article designation	Pieces / PU
DYMO® Rhino Pro 6000 Kit		
61800360	RHINO 6000 printer	1
DYMO® Rhino PRO 5200		
61800335	DYMO® Rhino PRO 5200	1
61800336	Rhino PRO 5200 with hard case	1
61800251	Battery pack	1

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■ Accessories

- ID1 - Industry tape D1 see page 895
- ID1 - Industry D1 tape

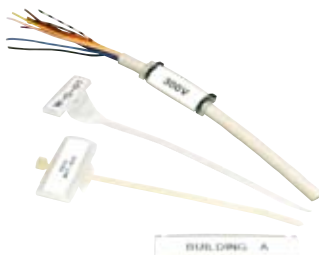




Info

- Industrial environment

ID1 - Industry tape D1



ID1 - Industry tape D1

Benefits

- Industrial labels are highly resistant to wear and tear, fluctuating temperatures, chemicals, solvents, water and UV-light. Due to the strong adhesive, the industrial tapes are suited perfectly to all smooth, rough, plain or bent surfaces.

Design

Permanent polyester tape:

Ideal for heavily textured and powder-coated surfaces where extremely good adhesion and a long service life are required. For identification of junction boxes, buttons and patch panels.

Flexible Nylon tape:

The permanent adhesive connection and a high quality Nylon material provide the ideal solution for permanent and legible labelling. Especially suited for cable labelling.

Colour vinyl strips:

The permanent adhesive connection, a flexible coloured vinyl and a tape resistant to UV, oil, scratches and solvents provide the ideal solution for every type of labelling. For indoor and outdoor applications. Ideal for warning and safety markings and for cable labelling.

Shrink tube tape:

For single core and cable labelling. The combination of shrinking tube and special coloured tape gives a smudge-proof and scratch-proof lettering which is resistant to solvents, oils and UV light.

Non-adhesive inserts label

Ideal as an insert for label holders (e.g. PTEF/ CAB) attached to the cable by a cable tie. Material: Polypropylene

Part number	Article designation	Colour Lettering/ tape	Width B mm	Length in m	For cable Ø mm	Pieces / PU
Permanent polyester labels						
61800260	RP/ID1 9MM POLYESTER SW/WS	black/ white	9	5.50		1
61800263	RP/ID1 9MM POLYESTER SW/METAL	black/ metal	9	5.50		1
61800261	RP/ID1 12MM POLYESTER SW/WS	black/ white	12	5.50		1
61800264	RP/ID1 12MM POLYESTER SW/METAL	black/ metal	12	5.50		1
61800262	RP/ID1 19MM POLYESTER SW/WS	black/ white	19	5.50		1
61800265	RP/ID1 19MM POLYESTER SW/METAL	black/ metal	19	5.50		1
Transparent polyester-labels						
61800285	RP/ID1 9mm POLYESTER SW/ TRANSP	black/ transparent	9	5.50		1
Flexible Industry D1 (ID1) Nylon-labels						
61800266	RP/ID1 12MM NYLON SW/WS	black/ white	12	3.50		1
61800268	RP/ID1 12MM NYLON SW/GELB	black/ yellow	12	3.50		1
61800267	RP/ID1 19MM NYLON SW/WS	black/ white	19	3.50		1
61800269	RP/ID1 19MM NYLON SW/GELB	black/ yellow	19	3.50		1
Flexible VINYL-labels						
61800270	RP/ID1 9mm VINYL SW/GELB	black/ yellow	9	5.50		1
61800271	RP/ID1 9mm VINYL SW/ORANGE	black/ orange	9	5.50		1
61800272	RP/ID1 9mm VINYL SW/ROT	black/ red	9	5.50		1
61800273	RP/ID1 9mm VINYL SW/GRÜN	black/ green	9	5.50		1
61800274	RP/ID1 9mm VINYL SW/WS	black/ white	9	5.50		1
61800275	RP/ID1 12mm VINYL SW/GELB	black/ yellow	12	5.50		1
61800276	RP/ID1 12mm VINYL SW/ORANGE	black/ orange	12	5.50		1
61800277	RP/ID1 12mm VINYL SW/ROT	black/ red	12	5.50		1
61800278	RP/ID1 12mm VINYL SW/GRÜN	black/ green	12	5.50		1
61800279	RP/ID1 12mm VINYL SW/WS	black/ white	12	5.50		1
61800280	RP/ID1 19mm VINYL SW/GELB	black/ yellow	19	5.50		1
61800281	RP/ID1 19mm VINYL SW/ORANGE	black/ orange	19	5.50		1
61800282	RP/ID1 19mm VINYL SW/ROT	black/ red	19	5.50		1
61800283	RP/ID1 19mm VINYL SW/GRÜN	black/ green	19	5.50		1
61800284	RP/ID1 19mm VINYL SW/WS	black/ white	19	5.50		1
Shrink tube tape						
61800290	RP/ID1 Shrink 1-6-1400	black/ white	6	1.50	1.18 - 2.33	1
61800294	RP/ID1 Shrink 1-6-1400YL	black/ yellow	6	1.50	1.18 - 2.33	1
61800291	RP/ID1 Shrink 1-9-1400	black/ white	9	1.50	1.73 - 3.73	1
61800295	RP/ID1 Shrink 1-9-1400YL	black/ yellow	9	1.50	1.73 - 3.73	1
61800292	RP/ID1 Shrink 1-12-1400	black/ white	12	1.50	2.97 - 5.13	1
61800296	RP/ID1 Shrink 1-12-1400YL	black/ yellow	12	1.50	2.97 - 5.13	1
61800293	RP/ID1 Shrink 1-19-1400	black/ white	19	1.50	4.64 - 8.70	1
61800297	RP/ID1 Shrink 1-19-1400YL	black/ yellow	19	1.50	4.64 - 8.70	1
Non-adhesive inserts						
61800340	RP/ID1 insertion plate 1-6-1600	black/ white	6	5.50		1
61800341	RP/ID1 insertion plate 1-6-1600YL	black/ yellow	6	5.50		1
61800342	RP/ID1 insertion plate 1-9-1600	black/ white	9	5.50		1
61800343	RP/ID1 insertion plate 1-9-1600YL	black/ yellow	9	5.50		1
61800344	RP/ID1 insertion plate 1-12-1600	black/ white	12	5.50		1
61800345	RP/ID1 insertion plate 1-12-1600YL	black/ yellow	12	5.50		1
61800346	RP/ID1 insertion plate 1-19-1600	black/ white	19	5.50		1
61800347	RP/ID1 insertion plate 1-19-1600YL	black/ yellow	19	5.50		1

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Accessories

- DYMO® Industrie Rhino Pro 6000 Kit / DYMO® Rhino Pro 5200 see page 894

DYMO® Label Manager 260P / DYMO® adapter 9 Volt



DYMO® Label Manager 260P

■ Benefits

DYMO® Label Manager 260P

- DYMO® Label Manager 260P is a handy, light printing computer which can be used to produce self-adhesive labels quickly and easily.

■ Product features

DYMO® Label Manager 260P

- ABC keyboard with navigation key for easy menu use

- RACE technology for fast access to special characters
- Prints up to 2 lines
- Manual tape cutting device
- Memory for up to 18 labels and 9 layouts

■ Note

DYMO® Label Manager 260P

- D1 label strips with 6, 9 and 12 mm width
- 7 fonts, 8 frames, 6 font heights, 3 styles

■ Scope of delivery

DYMO® Label Manager 260P

- Electronic label printers
- 12 mm label strip (black/white)
- Operating manual
- Guarantee card
- Li-Ion storage battery

Part number	Article designation	Pieces / PU
61800409	DYMO® Label Manager 260P	1
61800150	AC adapter 9 Volt	1

■ Accessories

DYMO® Label Manager 260P

- ID1 - Industry tape D1 see page 895
- DYMO® Tape D1 see page 897

DYMO® Label Manager 210D / DYMO® adapter 9 Volt



Info

- Easy operation

DYMO® Label Manager 210D

■ Benefits

DYMO® Label Manager 210D

- The DYMO® LM 210D is a handy desktop printer for producing self-adhesive labels in widths of 6, 9 and 12 mm quickly and easily.
- Possibilities of copy-and-paste
- Memory for up to 18 labels and 9 layouts

■ Application range

DYMO® Label Manager 210D

- Simple marking

■ Product features

DYMO® Label Manager 210D

- Prints 6, 9 and 12 mm labels, D1-tapes
- 6 fonts, 6 frames and 3 font heights

- Large, semi-graphic display
- RACE technology for fast access to special characters
- Prints up to 2 lines

■ Design

DYMO® Label Manager 210D

- Manual tape cutting device
- Length of label is free or fixed

Part number	Article designation	Pieces / PU
61800318	DYMO® LM 210D	1
61800150	AC adapter 9 Volt	1

■ Accessories

DYMO® Label Manager 210D

- ID1 - Industry tape D1 see page 895
- DYMO® Tape D1 see page 897

DYMO® Tape D1



DYMO® Tape D1

■ Benefits

- For multi-purpose applications

■ Product features

- Good resistance to weathering, ozone, UV-rays and oil
- Halogen-free

■ Technical data

 **Range of temperature**
-30 °C up to +120 °C

Part number	Article designation	Width x length mm	tape / Lettering	Pieces / PU
61811500	D1-Band	6.0 x 7.0	transparent / black	1
61811530	D1-Band	6.0 x 7.0	white / black	1
61811580	D1-Band	6.0 x 7.0	yellow / black	1
61811600	D1-Band	9.0 x 7.0	transparent / black	1
61811630	D1-Band	9.0 x 7.0	white / black	1
61811640	D1-Band	9.0 x 7.0	white / blue	1
61811650	D1-Band	9.0 x 7.0	white / red	1
61811660	D1-Band	9.0 x 7.0	blue / black	1
61811670	D1-Band	9.0 x 7.0	red / black	1
61811680	D1-Band	9.0 x 7.0	yellow / black	1
61811690	D1-Band	9.0 x 7.0	green / black	1
61800160	D1-Band	12.0 x 7.0	transparent / black	1
61800170	D1-Band	12.0 x 7.0	transparent / blue	1
61800180	D1-Band	12.0 x 7.0	transparent / red	1
61800190	D1-Band	12.0 x 7.0	white / black	1
61800200	D1-Band	12.0 x 7.0	white / blue	1
61800210	D1-Band	12.0 x 7.0	white / red	1
61800220	D1-Band	12.0 x 7.0	blue / black	1
61800230	D1-Band	12.0 x 7.0	red / black	1
61800231	D1-Band	12.0 x 7.0	yellow / black	1
61800232	D1-Band	12.0 x 7.0	green / black	1
61808850	D1-Band	19.0 x 7.0	transparent / black	1
61808860	D1-Band	19.0 x 7.0	transparent / blue	1
61808870	D1-Band	19.0 x 7.0	transparent / red	1
61808880	D1-Band	19.0 x 7.0	white / black	1
61808890	D1-Band	19.0 x 7.0	white / blue	1
61808900	D1-Band	19.0 x 7.0	white / red	1
61808910	D1-Band	19.0 x 7.0	blue / black	1
61808930	D1-Band	19.0 x 7.0	yellow / black	1
61808940	D1-Band	19.0 x 7.0	green / black	1
61808950	D1-Band	19.0 x 7.0	transparent / white	1
61808960	D1-Band	19.0 x 7.0	black / white	1
61808965	D1-Band	24.0 x 7.0	black / white	1

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■ Comparable products

- ID1 - Industry D1 tape

■ Accessories

- DYMO® Label Manager 260P see page 896
- DYMO® Label Manager 210D see page 896

M1011 Manual embossing machine



■ Benefits

- The M1011 manual embossing machine has a robust metal case and replaceable embossing disc and embosses metal straps. The machine also has an integrated punching and cutting device and an automatic strap feed. The M 1011 can also be used for plastic embossing straps.

■ Application range

- Outdoor applications
- Mechanical robust
- Cable and component marking system

■ Design

- PSST embossing disc: Horizontal letters A-Z / 0-9

■ Scope of delivery

- M11 Manual embosser, inc. PSST embossing disc.
- Without embossing tape

■ Technical data



General

Lettering height: 4.7 mm



Note

Punching hole diameter: 2 mm

Part number	Article designation	Lettering height mm	Width B mm	Length in m	Pieces / PU
61742670	M 11 embosser	4.7			1
61742710	ABS aluminium embossing tape without adhesive coating		12	4.80	1
61742720	ABS ALUM. STRAP W. A. LAYER		12	6.65	1
61742700	Embossing tape, stainless steel 12/6.40		12	6.65	1

SP Metal print



■ Benefits

- Easy handling:
- One and two hand operation
- Small and space-saving for narrow available space

■ Application range

- Stand embossing machine for metal plates
- SP Metallprint is a manually operated machine for embossing metal plates quickly and easily. The device is particularly suitable for batch production with changing data and different type plates. The sign is clamped and the desired characters are set on the embossing wheel visible in front of the device. The adjustable automatic feed of the work table ensures that the correct distances are achieved between the characters.

■ Product features

- Lettering sizes: 2,3,4,5 mm (replaceable embossing wheels)
- Character set: uppercase A-Z, numbers 0-9, characters +/-,
- Max. label size: 140x90 mm
- Pressure limit for uniform embossing depth
- Adjustable stop by terminal strip

■ Scope of delivery

- Embossing machine incl. embossing wheel for selected font size.

■ Technical data



General

Max. depth: 90 mm

Weight: 6.5 kg



Note

Equipment dimensions: H=303 mm / footprint 145x120mm

Part number	Article designation	Text height, mm	Pieces / PU
61725991	SP 2 embosser	2.0	1
61725990	SP 3 embosser	3.0	1
61725992	SP 4 embosser	4.0	1
61725993	SP 5 embosser	5.0	1
61726000	PK 2 spare embossing wheel	2.0	1
61726001	PK 3 spare embossing wheel	3.0	1
61726002	PK 4 spare embossing wheel	4.0	1
61726003	PK 5 spare embossing wheel	5.0	1

■ Accessories

- Stainless steel F.C.C. see page 875